
Training Land

MARCH 2004

HEADQUARTERS DEPARTMENT OF THE ARMY

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Contents

	Page
PREFACE.....	III
Chapter 1 THE ARMY NEEDS MANEUVER/TRAINING AREAS	1-1
1-1. Introduction.....	1-1
1-2. Purpose of this Training circular	1-1
1-3. Historical Perspective	1-1
1-4. Army Transformation.....	1-2
1-5. Training the Force.....	1-2
1-6. Maneuver/Training Areas for Reserve Components and Mobilization	1-3
1-7. Maneuver/Training Areas for Deployed Forces.....	1-4
1-8. Testing Ranges and Land.....	1-4
1-9. Maneuver/Training Area Definitions.....	1-5
Chapter 2 USING AND SUSTAINING MANEUVER/TRAINING AREAS	2-1
2-2. Introduction.....	2-1
2-2. Commanders' Maneuver land Use	2-2
2-3. Sustainable Range Program (SRP).....	2-2
Chapter 3 MANEUVER/TRAINING AREA STRATEGY AND ANALYSIS	3-1
3-1. Introduction.....	3-1
3-2. The Range and Training Land Strategy	3-1
3-3. Range and Training Land Program (RTLTP) Methodology	3-2
3-4. Installation Analysis and Strategy	3-2
3-5. Maneuver/Training Area Requirements	3-2
3-6. Range and Surface Danger Zone (SDZ) Requirements and Impact Areas	3-3
3-7. Mobilization Requirements.....	3-3
3-8. Unusable Installation Land.....	3-3
3-9. Maneuver/Training Area Deficiencies	3-4
3-10. Maneuver/Training Areas and the Environment	3-4
3-11. Geospatial Information System (GIS) Technology	3-6

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*This publication supersedes TC 25-1, 25 June 2001.

Appendix A UNIT MANEUVER/TRAINING AREA REQUIREMENTS.....A-1
Appendix B INSTITUTIONAL MANEUVER/TRAINING AREA REQUIREMENTSB-1
Appendix C OPERATIONAL FORCES TRAININGC-1
Appendix D INSTALLATION MAPS.....D-1
GLOSSARYGlossary-1
REFERENCESReferences-1
INDEXIndex-1

FIGURES

Figure A-1.Task Force maneuver/training area requirements (flowing scenario).....A-2
 Figure A-2. Non-contiguous maneuver areas, footprints, and connectivityA-3
 Figure A-3. Aviation unit contiguous/non-contiguous deliberate attack maneuver
 area requirements.....A-4
 Figure A-4. Aviation unit contiguous/non-contiguous air assault maneuver area
 requirementsA-4
 Figure C-1. BCT maneuver/training requirements (isolated events).....C-1
 Figure C-2 BCT maneuver/training area requirements (flowing scenario).....C-2
 Figure C-3. FSB maneuver/training area requirements (training independently)C-3
 Figure C-4. Area of Operation and Area of InfluenceC-4
 Figure C-5. SBCT maneuver/training area requirements.....C-5

TABLES

Table 3-2. Potential constraints on usable training land 3-3
 Table A-1. Mechanized Infantry and Armor Division Maneuver/Training Area
 Requirements.....A-5
 Table A- 2. Light Division Maneuver/training area Requirements..... A-18
 Table A-3. Maneuver/training area Requirements for Selected Units at Echelons
 above Division..... A-27
 Table A-4. Maneuver/training Area Requirements for the Stryker Brigade Combat
 Team (SBCT) A-53
 Table B-1. Institutional POI Maneuver Area RequirementsB-1
 Table C-1. UA Footprints.....C-6

Preface

This training circular incorporates changes to Training Circular 25-1, Training Land. These changes:

- Provide commanders and staffs a sound basis for understanding the changes in maneuver/training area use and management generated by Army Transformation. There are new management structures, new units and training doctrine and new pressures on sustaining existing maneuver/training areas. (Chapter 1)
- Describe the Army's Sustainable Range Program (SRP) goals and objectives for maneuver/training areas. (Chapter 2)
- Explain the proposed Army Range and Land Strategy, and how it supports land acquisition and Army Compatible Use Buffers (ACUB) (Chapter 3)
- Identify two additional environmental considerations that support regulatory compliance, land stewardship, and Army training. (Chapter 3)
- Update current unit maneuver/training area requirements based on Mission Training Plans (MTP) and Combined Arms Training Strategies (CATS). (Appendix A)
- Introduce Stryker Brigade Combat Team (SBCT) maneuver/training area requirements based on MTPs and CATS. (Appendix A, Table A-4)
- Update the Institutional maneuver/training area requirements. (Appendix B)
- Provide a "first look" at the Future Force's Unit of Action (UA) maneuver/training area requirements. As Transformation Forces strategies evolve, further updates will be required. (Appendix C)
- Discuss contiguous and non-contiguous maneuver areas and connectivity among non-contiguous areas. (Appendix C)
- Provide a link to training maps for selected installations. (Appendix D)

Maneuver/training area requirements (identified in this circular) for Army units are based on Army Training and Evaluation Program Mission Training Plans. These documents provide the solid doctrinal base from which unit commanders develop their unit training strategies to train their units for combat.

Army operational missions are conducted in a joint environment, and Army operational training will increasingly include the integration of the other Service's land, air and sea capabilities and maneuver/training area requirements. Maneuver/training area land requirements for joint operations have not yet been developed, but will be addressed in future updates. It is the primary purpose of this circular to state the Army's core requirements.

The proponent for this publication is the US Army Training Support Center, Fort Eustis, VA. Submit comments and recommendations on DA Form 2028 (Recommended Changes to Publications and Blank Forms) directly to Commander, USATSC, ATTN: ATIC-ATML, Fort Eustis, VA 23604.

Unless this publication states otherwise, masculine nouns or pronouns do not refer exclusively to men.

Chapter 1

The Army Needs Maneuver/Training Areas

Every day, the Army trains soldiers and units while developing leaders. Effective training is the cornerstone of operational success...Training to high standards is essential for a full spectrum force: Army forces must train to, and maintain, the highest readiness levels. FM 3-0, Operations, June 2001.

1-1. Introduction. The mission of the Army is to defend the homeland, promote security and deter aggression, fight and win the nation's wars, and ensure superiority over enemy forces. These missions will be accomplished in Joint, Interagency, Intergovernmental and Multinational (JIIM) environments. The training of soldiers, leaders, and units is the vital ingredient that assures the readiness of the force to accomplish these missions. To be effective, individual and collective training provides soldiers and leaders with the opportunity to practice battle-focused mission essential tasks in tough and realistic live training – field environments. The Army must and will “Train as We Fight” in a fully integrated live, virtual and constructive training environment that mirrors the operational environment. This training ensures that Army forces maintain the capability of Train-Alert-Deploy. It is necessary to sustain current maneuver/training areas to provide sufficient realistic live training conditions for future forces. The Army's Range and Training Land Strategy identifies the shortfall in maneuver/training areas and effect of encroachment pressures that may restrict live training, and provides a strategy to resolve these issues where possible.

1-2. Purpose of this Training Circular. This circular will assist commanders and staffs in answering these questions, among others.

- a. What are the maneuver/training area land requirements for specific Army unit and school training events at their Home-stations and the Combat Training Centers (CTC), and for deployed forces? Are these different in a JIIM environment? Are these different when training to fight a conventional or asymmetric threat?
- b. What are an Army installation's maneuver/training area land requirements for all its tenant and non-tenant units and schools?
- c. How do these requirements and the available maneuver/training area affect the Army's Range and Training Land Strategy and commander's training plan?
- d. How will these requirements change as the Army transforms from the Current Force to Future Forces?

1-3. Historical Perspective.

- a. Changes in the operational environment, specifically the threat, land combat operations, and information and technology dimensions affect the way the Army shapes and synchronizes the battle, and how it employs tactical units on the battlefield. The 21st Century environment of complex terrain with dispersed and asymmetric enemy forces replaces the well-defined linear battleground and massed attacking and defending forces. Maneu-

ver/training areas must challenge units, leaders and soldiers in the new battlespace and should not provide obvious outdated solutions to operational missions.

- b. Today's full spectrum operations include offensive, defensive and stability operations/support operations and range across the spectrum of conflict. These missions may occur simultaneously, may be combined or may transition from one to another and thus require skillful assessment, planning, preparation and execution. To successfully accomplish these missions, commanders focus their mission essential task list (METL), training time and resources on combat tasks and conduct battle-focused training. Adequate realistic and complex maneuver/training areas, the Army's "outdoor classroom", are one of the most critical training resources in the Live, Virtual and Constructive training environment that supports each of the three training domains (Institutional, Operational and Self-Development).

1-4. Army Transformation.

- a. The Army's current warfighting prowess is assembled around two force characteristics – heavy and light forces: heavy forces well equipped for war but difficult to deploy strategically; light forces that can respond rapidly worldwide, but lack staying power against mechanized or armored forces. The Army requires greater lethality, survivability, and deployability. The operational environment demands the Army adopt a new vision and make fundamental change to its forces.
- b. One of the first steps in transformation is the development and employment of the Stryker Brigade Combat Team (SBCT). The SBCT is a full-spectrum force that has utility in all operational environments against all adversaries. Its primary mission is to fight and win small scale contingency operations in complex and urban terrain against low-end to mid-range adversaries that employ conventional and asymmetric capabilities. The main SBCT vehicle, the Stryker, enhances tactical mobility and allows the SBCT to reposition its reserve rapidly, strike the enemy in-depth secure lines of communications, and conduct non-contiguous fights and reconnaissance and security operations. Training the SBCT to standard requires complex contiguous and non-contiguous maneuver/training areas which are part of a fully digitized training environment. (See Appendix C.)
- c. This circular includes the best information available on the Future Force. The Future Force will operate over extended distances (Areas of Interest, Areas of Influence and Areas of Operation) and according to the Quality of Firsts: See First, Understand First, Act First and Finish Decisively. As the Future Force concepts and doctrine emerge, this document will be revised appropriately.
- d. The future Army will likely include a mix of Current, Stryker and Future Forces and vehicles. Maneuver/training areas will need to be large enough, contain the appropriate complex terrain and provide realistic conditions for all three force structures and organizations. The introduction of digitized live-fire ranges networked with situational awareness systems will also affect the size and configuration of maneuver/training areas.

1-5. Training the Force.

- a. How the Army trains is explained in FM 7.0, Training the Force and FM 7.1, Battle Focused Training. The majority of soldier training and all collective training take place in units. In units, soldiers build on basic tasks to attain skills not taught in initial entry training. Unit collective training develops effective combined arms teams consisting of fully integrated combat, combat support, combat service support, and joint Special Operations Forces (SOF) elements. Essential to meeting Army training goals are the maneuver/training areas required to conduct combined arms training to standard.

- b. The US Army (the Active Army, the Army National Guard, and Army Reserve) trains according to Army Training and Evaluation Programs (ARTEP) Mission Training Plans (MTP) and the Combined Arms Training Strategy (CATS). All identify requirements for maneuver/training areas (maneuver areas, live-fire ranges, surface danger zones and impact areas.) to support training.
- c. Particularly relevant to this training circular are the spatial ramifications of:
 - (1) The capability of dispersed maneuver forces to move on or above the ground over great distances and fight at the decisive location. Rapidly deploying maneuver forces require enroute mission planning and rehearsal capability and support.
 - (2) The development and employment of weapons with line-of-sight, non-line of sight and beyond line-of-sight capabilities, and their extended ranges.
 - (3) The explosion in situational awareness capability, linking sensors to command and control nodes and weapons systems.
 - (4) The development and employment of a new generation of manned and unmanned air and ground platforms.
 - (5) The increased threat posed by asymmetrical forces to combat support and combat service support elements over extended distance in nonlinear battlespace.
- d. Requirements for maneuver/training areas will continue to increase as commanders train to standard on these emerging weapons of greater lethality and digital information systems that provide situational awareness and the common operating picture (COP).

1-6. Maneuver/training areas for Reserve Components and Mobilization.

- a. The Army must be prepared to meet our nation's strategic commitments. The Reserve Component (RC) represents a substantial portion of the combat power necessary to meet these global missions. This includes equipping RC units with the latest weapon and tactical equipment systems. Reserve Component units are funded for training at the platoon level. Some RC units are required to train at company through brigade echelon as directed by Forces Command (FORSCOM) or other Army major commands (MACOMS). Reserve Component combat battalions and other size units will be directed to train at the Combat Training Centers (CTC) and Joint National Training Center (JNTC) to ensure their combat readiness. Reserve Component units face unique challenges that include geographical dispersion and limited time to train.
- b. The increasing reliance on RC forces means increased requirements for maneuver/training areas to support them. Maneuver/training areas at RC Major Training Areas (MTA) may not be large enough or replicate the operational environment. Alternatives to RC maneuver/training areas include:
 - (1) Training on Active Component (AC) installations in accordance with Memorandums of Agreement or Understanding (MOA/MOU).
 - (2) Acquiring or leasing additional maneuver/training areas.
- c. Maneuver/training areas for mobilization requirements. Mobilization brings the armed forces to a state of readiness for war or other national emergency. It includes:
 - (1) Assembling and organizing personnel, supplies, and materials for active military service.
 - (2) Activating or federalizing the RC.
 - (3) Extending terms of service.

- (4) Taking other actions to convert to a wartime posture.
- (5) Conducting training of individual and unit tasks beyond peacetime requirements.
- d. Installations designated as mobilization station Power Projection Platforms (PPP) and Power Support Platforms (PSP) must support, and train RC units and prepare those forces for deployment.
- e. Installations designated Army training centers will expand the training base and must quickly respond to the challenge of surge requirements inherent in a major mobilization. They may provide:
 - (1) Basic combat training.
 - (2) Advanced individual training.
 - (3) One-station unit training.
 - (4) Leadership training (e.g., Basic Officer Leader Course, Basic Noncommissioned Officer Course and Advanced Noncommissioned Officer Course.).

1-7. Maneuver/training areas for Deployed Forces.

- a. The Army has a significant number of units forward stationed or deployed around the world. Where forward stationed the Army, as a result of treaty agreements, has been provided control of maneuver/training areas to maintain the individual and collective training readiness of their units. As the Army considers new opportunities for overseas training areas, this circular can assist in evaluating the quantities and realistic training conditions of potential maneuver/training areas.
- b. Operational forces that are forward deployed are generally committed for at least six months. They do not have a need for the same quantity and quality of maneuver/training areas as forward-stationed units. Unit commanders of deployed units are guided by the following training considerations:
 - (1) Training supports the Train-Alert-Deploy-Employ concept, and is secondary to the mission and at the commander's discretion. Deployed training includes mission rehearsal.
 - (2) The training focus is the sustainment of perishable individual and crew skills, primarily weapons qualification and crew gunnery. Commanders must evaluate their unit's readiness and plan for training to sustain such skills. CSS units must also train and rehearse critical individual and collective skills based on their METL and tactical mission
 - (3) Training should be supported by a training aids, devices, simulators, and simulations (TADSS) package and instrumentation.
 - (4) Based on the unit's training needs and training resources available while deployed, the commander may develop plans for crew and higher echelon maneuver training using this circular's standard methodology.

1-8. Testing Ranges and Land. The Army Test and Evaluation Command (ATEC) also require land, ranges, drop zones and impact areas to support research, development and testing and evaluation (RDT&E) and experimentation. Exact requirements to support these tasks are not available. The majority of these facilities are located on ATEC installations and are presently not available for maneuver training, although the vast acreages set aside for testing may be required to train Future Forces.

1-9. Maneuver/training area Definitions. Army maneuver/training areas are described in Department of the Army (DA) Pamphlet (Pam) 415-28, Guide to Real Property Category Codes. It defines “maneuver/training areas” as those designated for impact and detonation of all ordnance or those areas required for land-intensive training at the installation. These maneuver/training areas are further defined in terms of the forces that use them as “light, amphibious, and heavy forces.” As the unique requirements of SBCT and Future Forces are identified, these definitions may change. These three areas have common characteristics to include: “Different type units may work in support of one another (combined arms), or the unit may operate on its own to train a specific set of ARTEP tasks. Included in these areas are bivouac sites, base camps, and other miscellaneous training areas. Impact areas are defined as “dudded” or “non-dudded”. Each of these areas should be accounted for with a separate facility number and real property record.” Their unique definitions are:

- a. Light forces (light infantry) - space for ground and air combat forces to train movements and tactics as specified in the unit’s ARTEP. The “light” designation refers to areas where maneuver may be restricted to only small units or units having only wheeled vehicles. “Light” maneuver/training areas cannot be used by “heavy” forces.
- b. Amphibious forces (transportation) - space for ground and air combat forces to train movements and tactics during amphibious (ship-to-shore) operations. Tasks can include both combat and logistics (especially logistics over the shore, LOTS).
- c. Heavy forces (armor and mechanized infantry) - space for ground and air combat forces to train movements and tactics as specified in the unit’s ARTEP. The “heavy” designation refers to areas where maneuver is unrestricted and can consist of all types of vehicles and equipment, including tracked vehicles. “Heavy” maneuver/training areas can be used by “Light” forces.
- d. Impact Area- Dudded – an area having designated boundaries within which all dud-producing ordnance will detonate or impact. This area may include vehicle bodies that serve as targets for artillery/mortar direct and indirect fire. Impact areas containing unexploded ordnance may not be used for maneuver.
- e. Impact Area – Non-Dudded – an area having designated boundaries within which ordnance that does not produce duds will impact. This area is composed mostly of the safety fans for small arms ranges. These impact areas may be used for maneuver, at the cost of curtailing use of weapons ranges.

Chapter 2

Using and Sustaining Maneuver/Training Areas

Army forces today are the preeminent land forces in the world. That preeminence translates into the ability to dominate land operations. Only land forces can exercise direct, continuing, discriminate and comprehensive control over land, people, and resources. FM 3-0, Operations, June 2001.

2-1. Introduction

- a. All training assets and resources must be considered and appropriately included in the commander's unit training strategy. To ensure mission accomplishment, unit training readiness is best achieved by performance-oriented execution of mission essential tasks in live, virtual, and constructive training. But only in live training, with combat-like conditions, can most unit collective tasks be assessed for performance to standard.
- b. The continuous use of maneuver/training areas will result in maneuver damage. Army commanders must make sound management decisions to minimize the maneuver damage impacts, best utilize limited land repair funding, and sustain maneuver/training areas for follow-on commanders. Army Mission Training Plans (MTP) at the Company/Team level and higher contain an Environmental Protection Appendix. Commanders use this appendix to make an environmental risk assessment and to integrate environmental considerations into training planning and execution. Installation range officers, natural resources staffs and ITAM staffs can assist commanders in identifying environmental risks and solutions.
- c. As explained in FM 3-100.4, Environmental Considerations in Military Operations, and TC 5-400, Environmental Planning and Risk Management, commanders must consider the effects of training on the environment and the communities around the installation in evaluating alternatives to execute new and changing missions. Federal, state, and local laws require Army compliance with environmental and pollution abatement regulations for air, water, and noise pollution control, solid waste management and threatened or endangered species. Requirements may include filing for construction or operation permits with federal, state, or local regulatory agencies. Requirements of the National Environmental Policy Act (NEPA) of 1969 may also require an environmental assessment or environmental impact statement (EIS) documentation. This requires close coordination among installation staff elements and the local communities during all phases of planning.
- d. The Army's Integrated Training Area Management (ITAM) program in conjunction with the installation environmental staff establishes procedures to achieve optimum, sustainable use of maneuver/training areas by implementing a uniform land management program. The ITAM program includes inventorying and monitoring of maneuver/training area conditions, integrating training requirements with land-carrying capacity, educating users to minimize adverse impacts, and providing for maneuver/training area rehabilita-

tion and maintenance. ITAM is the Army's preventative maintenance program for training land. See paragraph 2-3 of this circular for more discussion of the ITAM Program.

2-2. Commanders' Maneuver Land Use.

- a. Emerging Army doctrine, operational experience in Afghanistan and Iraq, and new technologies will change current training concepts and training space requirements. Army units should train in the same maneuver space conditions for live-fire, tactical movement, and resupply in training as they would in combat. Ground forces need large contiguous maneuver/training areas to support "free-flowing exercises." Such exercises support the conduct of ARTEP missions without stopping after each mission to reposition forces for the next mission. Aviation, communication and reconnaissance and intelligence units operate above the ground over large areas, sometimes non-contiguous land areas, but actually occupy a small footprint. In the previous TC 25-1 it was assumed that transportation units needed only a public road network to train to standard, but experience in Iraq demonstrates the value of Situational Training Exercises (STX) conducted in maneuver/training areas of complex terrain and urban environments.
- b. Corps and division headquarters, as well as lower echelons, use virtual and constructive simulations to develop expertise in brigade, division, and corps operations. These simulations support achieving training proficiency, but cannot replace hands-on experience gained in live training at lower echelons. The brigade combat team needs sufficient maneuver/training areas to deploy its battalion task forces and position combat support and combat service support units. However, that maneuver area may be limited as a result of its configuration or restrictions on use. There are several ways to adjust the battlefield space requirement. The commander can reduce unit frontages, decrease the distance between maneuver brigades and their support units, or position support units in an area not contiguous to the maneuver brigades. As an example, the brigade commander could disperse his units across an installation, a good distance apart, or he could position the units on different installations and Federally-owned lands at significant distances apart. This example does not reduce the requirement for maneuver/training areas, but represents one option for training to standard with constrained resources.
- c. The battalion task force is the lowest echelon at which all elements of the combined arms team fight together. The battalion/task force commander organizes his unit into decisive, shaping and sustaining forces in support of the main effort. He anticipates enemy actions, maneuvers the combined arms team and masses firepower and forces at the decisive time and place to defeat the enemy. Army Training and Evaluation Program (ARTEP) MTPs and CATS define tasks, conditions and standards to assist the commander in creating a realistic training environment and battlefield conditions.

2-3. Sustainable Range Program (SRP) – Managing, Sustaining, and Maintaining training lands.

- a. The SRP is the Army's approach to improving its design, management, use and sustainment of its training ranges and maneuver/training areas. It has two core programs, the Range and Training Land Program (RTLTP) and ITAM which are integrated with facilities, environmental and munitions management and safety programs. The SRP goals are to maximize the current and future capability, availability and accessibility of ranges and training lands to support doctrinal training and testing requirements. The SRP tenets are Information Excellence, Integrated Management and a Dedicated Outreach Program.
- b. The RTLTP provides a range operations and modernization capability for the central management, prioritization, planning and programming of live-fire ranges and maneuver/training areas, including design and construction activities. The RTLTP planning process integrates mission support, environmental stewardship and economic feasibility. It

defines procedures for determining range projects and training land requirements to support live-fire training and maneuver training.

- c. The ITAM program provides Army range and training land managers with the capabilities to manage and maintain training and testing lands by integrating training requirements (derived from the RTLP) with environmental requirements and environmental management practices. The objectives of the Army's ITAM program are to:
 - (1) Achieve optimal sustained use of lands for the execution of realistic training and testing, by providing a sustainable core capability, which balances usage, condition, and level of maintenance.
 - (2) Implement a management and decision-making process, which integrates Army training and other mission requirements for land use with sound natural resources management.
 - (3) Advocate proactive environmental conservation and land management practices. Align Army training land management priorities with the Army training and readiness priorities
- d. The long-term value of the SRP and ITAM programs at an installation are that they provide:
 - (1) Better maneuver/training areas to support realistic training.
 - (2) Reduced costs of land management, sustainment and maintenance.
 - (3) An analysis of the environmental effects of training and potential environmental restrictions on training and potential proactive responses.
 - (4) A demonstrated reputation for good land management.

Chapter 3

Maneuver/Training Area Strategy and Analysis

Land combat takes place among a complex variety of natural and manmade features. The complexity of the ground environment contrasts significantly with the relative transparency of air, sea, and space. FM 3-0, Operations, June 2001.

3-1. Introduction.

- a. Army Transformation, Transformation Installation Management (TIM), the Army Stationing Strategy, OSD's Training Transformation (T2) initiative and encroachment pressures require the Army to adopt a strategic view of its range and training land assets in order to ensure long-term sustainability of training readiness. Training lands must be fully capable of supporting the Future Forces and mission challenges. Under TIM the Installation Management Agency (IMA) and its regions command Army and Army Reserve CONUS installations, including most range and training land assets. OSD's T2 seeks to increase inter-service use of training lands and ranges. Encroachment, caused by external factors such as urbanization and environmental regulation, is a serious challenge to continued use of maneuver/training areas. All these factors drive the Army's efforts to ensure that its training lands will meet the Army's training requirements.
- b. The Office of the Deputy Chief of Staff, G-3 has developed an Army Range and Training Land Strategy that will enable the Army to prioritize the development, and possible expansion, of its range and land assets to optimally support the mission. This strategy addresses the Combat Training Centers, home-station and forward deployed sites, supports stationing analyses and identifies enduring training installations.

3-2. The Range and Training Land Strategy.

- a. The Army must ensure its installations are capable of projecting and sustaining highly operationally ready forces on short notice to respond to any crisis. To support these forces under the Train-Alert-Deploy-Employ paradigm, the Army must take a strategic view of its training infrastructure and provide the best capabilities based on mission and doctrinal requirements.
- b. The Army's previous land strategy was a "bottoms up" process that developed a Land Use Requirements Study (LURS). It was complicated, expensive, and focused on opportunities instead of prioritized strategic maneuver/training area requirements. Much of the burden of justifying a potential land expansion fell on the installation staff, and administrative costs claimed a large amount of limited funds and resources.
- c. Under the new Army Range and Training Land Strategy, HQDA G3 has the mission of providing a comprehensive training land strategy that effectively analyzes, justifies and executes training land acquisition decisions for the Army. However, installations with an identified training land requirement should reference: Memorandum, Deputy Chief of Staff of the Army, G3, Acting Director of Training, Acting Director of Training (ADOT),

29 January 2002, Subject: Policy for Acquisition of Army Range and Training Lands. A copy of this memorandum can be provided by the proponent of this circular.

- d. The Army Land Strategy has three objectives. First is to create a land “inventory” capable of meeting the Army’s future training requirements. Second is developing a flexible land acquisition process that enables installations to meet training requirements economically and efficiently. Third is using this strategy to maintain a sustainable training land inventory through the execution of the SRP.

3-3. Range and Training Land Program (RTLTP) Methodology. The RTLTP planning process, described in AR 210-21, The Army Range and Training Land Program, is a six-step process that includes: an asset accounting, a needs assessment, comparative analyses, requirements definitions, alternative analyses and an implementation plan. The requirements identified in this process culminate in a Range Development Plan (RDP).

3-4. Installation Analysis and Strategy. Following the RTLTP Methodology and using Army RTLTP Requirements Model (ARRM) the installation range and training land proponent will generate a Range Development Plan (RDP). The RDP identifies maneuver/training area users (customers) and their training requirements based on Army training doctrine and this circular. Based on this analysis, which may identify maneuver/training area shortfalls or excesses, the RDP can provide resource guidance, training land sustainability goals and training strategy alternatives. The RDP provides a near and long term project plan for training, public works, and environmental planners. HQDA also used RTLTP and ARRM to determine the maneuver/training area requirements and capacities in the Army Range and Training Land Strategy

3-5. Maneuver/training area Requirements.

- a. Ideally, installations would have sufficient contiguous maneuver/training areas large enough to support the largest collective training event conducted at home station. Appendices A and B provide the requirements and process for calculating home station training/maneuver area requirements for unit and institutional training events. Appendix C describes the contiguous and non-contiguous maneuver/training area requirements for training operational forces.
- b. The primary tool that G3, IMA, MACOMs and installations can use to assess and analyze live training requirements and capacities is the Army RTLTP Requirements Model (ARRM). ARRM is linked to several Army administrative and operational databases through ACSIM Real Property and Analysis System (RPLANS) to ensure consistent requirements and capacities are provided to G3 and ACSIM systems. ARRM is an internet-based live training model that includes live training asset inventories (e.g. maneuver/training area in square kilometers, acres and square kilometer x days), live training requirements of Active and Reserve Component forces, and institutional training land requirements. Access to the ARRM can be acquired through the internet. Contact the proponent (USATC, ATTN: ATIC-ATML-LM, Fort Eustis, VA 23604) of this circular for additional information and access.
- c. When planning maneuver/training area requirements, consider airspace requirements. Airspace is a critical element in combined arms training. Provisions must be made to designate airspace for airborne intelligence-gathering platforms, close air support, air defense and field artillery, and mortar firing as part of the combined arms team. Army Regulation 95-2, Air Traffic Control, Airspace, Airfields, Flight Activities, and Navigational Aids, and AR 385-63, Policies and Procedures for Firing Ammunition for Training, Target Practice, and Combat, provide information on designating, using, and managing special-use airspace. Federal Aviation Administration Handbook 7400.2 provides stipulations and requirements.

3-6. Range and Surface Danger Zone (SDZ) Requirements and Impact Areas.

- a. Live-fire range and SDZ land (“footprint”) requirements depend on the type and mission of units assigned to or supported by the installation and the weapon systems used. Training Circular 25-8, Training Ranges, describes Army standard ranges and targets. It provides guidelines for selecting ranges to support individual and collective training requirements, and it also provides information for calculating training throughput requirements and range throughput capacities.
- b. Department of the Army Pam 350-38, Standards in Weapons Training, provides commanders with training strategies for individual, crew and collective weapons training, and identifies the resources required to execute that training. STRAC strategies are the basis for determining training ammunition requirements.
- c. Army Regulation 385-63, Training Ranges, Range Safety Standards, provide instructions for developing SDZs and computing impact area requirements for Army weapon systems. SDZs and impact areas constitute a major land requirement, and this land may not be available for maneuver training.

3-7. Mobilization Requirements. Mobilization requirements for maneuver/training areas, ranges, and SDZs require special consideration. Mobilization may occur when both AC and RC units are on the installation, and mobilized Individual Ready Reserve (IRR) personnel begin arriving for pre-deployment training. This may require additional maneuver/training areas on a short-term basis. Careful scheduling of facilities or expanding the training support work force may satisfy training requirements. Upgrading facilities, using other federal or state-owned land or executing standing maneuver rights agreements and leasing arrangements may also satisfy the mobilization training requirements.

3-8. Unusable Installation Land. To assess the quality of installation maneuver/training areas, planners must subtract restricted and unusable land from the gross acreage figures. Natural resource managers can provide planners with information on the acreage of sensitive and unusable land. Unusable land includes a number of items identified in Table 3-2.

Table 3-2. Potential constraints on usable training land	
Areas for Consideration	Remarks
Facilities	Post utilities, highways, easements, buildings, historic sites, cemeteries, cultural sites, airfields, ammo storage areas, natural recreation areas, recreation sites and bodies of water off limits for training.
Environmental restrictions	Erosion control, pollution prevention, noise avoidance, wildlife management, deadfall, endangered species protection, forestation, cultural resource sites protection, wetlands, and possible conformity issues and opacity limits.
Encroachment	Growing cities and competing projects. (Primarily influencing off-post noise and dust migration.)
Shape	Irregular post outlines and noncontiguous parcels that prevent maneuver or canalize forces.

3-9. Maneuver/training area Deficiencies. Realistic training is the essential element that assures unit combat readiness. Many unit mission essential tasks can be trained to standard only during live training. For example, tasks "Occupy a platoon battle position," or "Create a

crater obstacle with explosives," are difficult to evaluate in virtual or constructive training. Only in the live training environment can leaders evaluate collective training to standard using training and evaluation outlines from the applicable MTP. A maneuver area that restricts doctrinal unit employment and does not reflect the potential battlefield will impair the unit's preparation for combat. The impact of a maneuver/training area shortfall on unit training is the commander's judgment guided by his experience and considerations identified in this circular. The degree to which land deficiencies constrain training and how those training constraints, in turn, affect training readiness are command judgments. Commanders must weigh the cost of accepting maneuver/training area shortfalls against the assessed reduction in training readiness. If available resources do not permit achieving training readiness, the commander develops reports on the training readiness impact through appropriate channels.

3-10. Maneuver/training areas and the Environment. When managing the training lands the garrison commander and his range and training land proponent also must take into account the recommended land-carrying capacity, environmental compliance requirements, and the sustainability of the training land.

a. **Legal and Regulatory Compliance Requirements.** Federal, state, local, and host-nation governments have established laws and regulations to protect human health and the natural and cultural resources from degradation. Heightened awareness by the public and federal government has led agencies to develop policies to support regulatory compliance and stewardship. Compliance with applicable environmental laws and regulations is as necessary as training safety considerations. The Army is making a concerted effort to integrate environmental considerations into all Army activities. At most locations, installation environmental support personnel are available to help leaders understand the various laws and regulations. These support personnel include the DPW, Environmental Office, Staff Judge Advocate, and Range Office. Army Regulations 200-1, Environmental Protection and Enhancement; 200-2, Environmental Effects of Army Actions; 200-3, Natural Resources - Land, Forest, and Wildlife Management; and 200-4, Cultural Resources are the primary references for Army environmental programs. Major laws and regulations with land use implications are described below.

- (1) **National Environmental Policy Act.** The NEPA requires federal officials and Army leaders to analyze potential environmental impacts of proposed actions and alternatives before making decisions. Army installations should have, in place, programmatic NEPA documents that have analyzed potential training impacts. This is especially important if unique or large-scale activities are planned. Consult installation environmental office personnel regarding requirements for NEPA documentation.
- (2) **Resource Conservation and Recovery Act (RCRA).** The RCRA sets the nation's framework for managing hazardous waste. RCRA regulations establish the standards for identifying, classifying, transporting, storing, treating, and disposing of hazardous waste. The RCRA also requires that those involved in managing hazardous waste be properly trained. The RCRA includes proper disposal of waste such as garbage, pyrotechnics, blank ammunition, and kitchen gray water. The installation hazardous waste manager and unit hazardous materials personnel support and advise on RCRA compliance.
- (3) **Clean Water Act (CWA).** The CWA affects surface, groundwater, and storm water protection, wetlands and coastal waters protection, and erosion control. It also establishes requirements for reporting oil and hazardous substance spills into waterways. During training activities, spills and maneuver damage to wetlands or streams have potential implications under the CWA. The installation must have a spill plan, and units training on the installation must be familiar with the installa-

tion's spill plan. The installation staff should develop and publish policies regarding training in and around wetlands, streams, or other water bodies.

- (4) National Historic Preservation Act (NHPA). The NHPA's purpose is to safeguard against the loss of historic properties (formerly historic and archeological sites). Many historic properties are located on Army facilities, ranging from prehistoric settlements and Native American sacred sites to 19th century cantonments. Installations must ensure proper policies, procedures, and controls are in place to protect these areas during all activities, but especially training. The AR 200-4 requires each installation to develop an ICRMP. The ICRMP is a component of the installation master plan and is the installation commander's decision document for cultural resources management actions and specific compliance procedures including NHPA and other cultural resources statutes and regulations. The ICRMP integrates the entire installation's cultural resources program with ongoing mission activities. This allows the identification of potential conflicts between the installation's mission and cultural resources, and identification of compliance actions necessary to maintain the availability of mission essential properties and acreage. The installation cultural resources manager, in the environmental office, is the primary support staff for the installation.
- (5) Endangered Species Act (ESA). The ESA prohibits actions that harm threatened or endangered species or their critical habitats. Army land uses, including training, testing, timber harvesting, recreation, and grazing are subject to ESA requirements for the protection of listed species and critical habitat. The key to successfully balancing mission requirements and the conservation of endangered species is long-term planning and effective management to prevent conflicts between these competing interests. Proponents of Army actions will coordinate with the installation's natural resources staff, early in the planning stage of projects and activities, to identify potential conflicts with the conservation of endangered species. The installation staff will integrate endangered species management and installation planning functions to avoid conflicts with ESA requirements. The INRMP and ITAM program should be closely coordinated and mutually supportive.
- (6) Noise Control Act (NCA). The NCA of 1972 was enacted to regulate noise emission levels and their effect on the population. States are given authority to establish various noise emission standards. To comply with the NCA the army has created an active Environmental Noise Management Program (ENMP). The purpose of this is to assess the impacts of noise to produced by Army activities and minimize its negative impacts on the surrounding communities. This requirement is also identified in AR 200-1.
- (7) Clean Air Act (CAA). Attainment or non-attainment of National Ambient Air Quality Standards continuously increases regulation of many installation activities, to include vehicle maintenance and training (ex. smoke and obscurant training). The CAA requires data collection, risk management plans, monitoring and in some cases permits. The general conformity rule requires coordination with state agencies to ensure federal activities do not undermine state implementation plans.
- (8) The Sikes Act and the Sikes Act Improvement Act (SAIA). The SAIA and associated DOD directives require the Army to manage natural resources at its installations. They are to provide for sustained multipurpose use and to manage public access necessary or appropriate for that use as long as that use is not inconsistent with the military mission. The Act requires the Army to develop and implement an INRMP. Natural resources planning and management must occur

through a statutorily mandated process that establishes timelines, prescribes necessary elements, and requires open and coordinated preparation with the US Fish and Wildlife Service, state fish and wildlife agencies, and the public. The INRMP is the installation commander's adaptive plan for managing natural resources to support and be consistent with the military mission while protecting and enhancing these resources for multiple uses, sustainable yields, and biological integrity. The purpose of the INRMP is to ensure that natural resource conservation measures and Army activities on mission lands are integrated and are consistent with federal stewardship requirements. Also, the INRMP provides for ecological requirements of the military mission. The INRMP should include input from the installation natural resource staff and range and training managers to ensure training and range requirements are integrated and accounted for in the plan and in coordination with the installation environmental programs.

- b. Environmental Considerations in Foreign Nations. Installations located in foreign countries will comply with the host nations' laws and regulations and ARs 200-1 and 200-2.

3-11. Geospatial Information System (GIS) Technology. The rapidly increasing use of GIS capabilities and the emergence of "Enterprise GIS" on installations will improve the commander and staff's ability to view, analyze and adjust conflicting training, natural resource and facility management requirements.

Appendix A

Unit Maneuver/Training Area Requirements

Units train to standard under realistic conditions. They (commanders and leaders) must seize every opportunity to move soldiers out of the classroom into the field. FM 7.0, Train the Force, October 2002.

A-1. Introduction

- a. Unit collective training is derived directly from the unit mission essential task list (METL) and Mission Training Plans (MTP). It must be conducted to Army standard and conform to Army doctrine. As an example, the MTP for the Tank Platoon, ARTEP 17-237-10-MTP, identifies four missions: Move, Attack, Defend, and Stability & Support Operations. Chapter 2 in the MTP provides a mission to collective task matrix, and Chapter 4 describes the training exercises.
- b. The Combined Arms Training Strategy (CATS), (See Chapter 4 of TR 350-70, Systems Approach to Training Management Processes and Products), is descriptive and assists the commander in planning collective training. As an example the CATS Task Template for a Rifle Platoon (AASLT) lists seven separate training tasks. For each task CATS identifies supporting tasks, training options (ex. MAPEX, TEWT or STX), critical training gates, the event frequency, the purpose and outcome of the event and required resources. CATS also provides guidance on training the event to standard.
- c. Until recently MTPs, and occasionally CATS, would describe the dimensions of maneuver/training area required for each task - usually as a rectangle in square kilometers - the duration of the task and the number of times that task would be trained annually. This is no longer the case across the Army, however, the dimensions shown in these tables have been provided by the Army's schools and proponents as guidance. Unit commanders will analyze their unit METL, assess their unit's task proficiency, estimate the resources available (using METT-TC), refer to CATS and plan their training accordingly.

A-2. Computations of gross maneuver area requirements (km² x days)

- a. In order to compute the unit and maneuver area requirements in Tables A-1 through A-4, a different approach was used. If the MTPs and CATS stated the required dimensions, duration and frequency of the collective training event, this information was used. If this information was not apparent, either Subject Matter Experts from the proponents or current unit information was substituted.
- b. Use Tables A-1 through A-4 to determine gross maneuver area requirements for training facilities from small local areas to division-size or larger installations:
 - (1) Column 1 lists units, their missions or tasks.
 - (2) Column 2 lists the maneuver area requirements for the type unit by mission or task.
 - (3) Column 3 lists a recommended frequency for training on the mission or task during a training year to maintain the required level of performance.

- (4) Column 4 lists the recommended number of days per training iteration.
- c. In one example, a commander wants to determine the gross annual maneuver/training area requirement for a task force's four core missions. By referring to Table A-1 (see page)he identifies the land requirement for each mission, (column 2), the number of repetitions (column 3), and the days required per repetition (column 4).
- Movement to contact 248 km²
 - Offense 68 km²
 - Defense 138 km²
 - Retrograde 138 km²
 - 592 km² for all 4 events x 2 repetitions x 2 day per repetition = 2,368 km²-days annually for one task force.
- d. In another example, a commander wants to determine the gross annual maneuver/training area requirement for all task forces stationed on a single installation. He knows the requirment for one task force is 2,368 km² and there are two brigades (6 task forces) on his post. The total requirement is then 2,368 km²-days x 6 task forces = 14,208 km²-days. The commander may want to include the maneuver/training area requirement for the combat support unit and combat service support unit "slices" to get a total task-organized requirement.
- A-3. Definition of terms.** Planning unit live training requires consideration of the need for "contiguous" and "non-contiguous" maneuver areas, communications and road connectivity, and airspace management.
- a. "Contiguous" means the unit commander has the appropriate size (km² or acres for the ARTEP MTP task) maneuver area available and control of that maneuver area to support collective live training. For example, the mechanized/armor battalion task force must have the proper size maneuver area to support ARTEP training for movement to contact (8 km x 31 km), offense (4 km x 17 km), defense (6 km x 23 km), and retrograde (6 km x 23 km) missions. They must control that maneuver area to ensure there are no training distractions or unsafe activities resulting from other units in the same area. Figure A-1 is an example of the contiguous maneuver area necessary to support task force training.

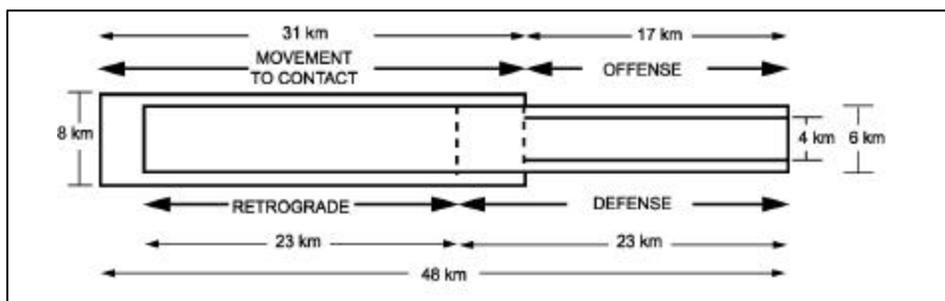


Figure A-1.Task Force maneuver/training area requirments (flowing scenario)

- b. "Non-contiguous and connectivity" means having maneuver area available in size (km² or acres) to exercise the unit's tactical capabilities represented by the four shaded areas/footprints (see Figure A-2). In these four areas, the unit conducts live training to include tactical maneuver, command-control-communications & computers-intelligence-surveillance & reconnaissance (C4ISR) and refuel/rearm, and maintainence. The unit

(aviation, transportation, military police or signal) requires the connectivity (airspace, roads, airways) to fly, drive, and communicate among the four sites. Unlike the task force in Figure A-1, the unit training in Figure A-2 does not need to control the entire maneuver area in the 50 km x 50 km box. The small footprints can be dispersed across a single installation and even located on separate installations in order to meet doctrinal, weapons system and C4ISR requirements.

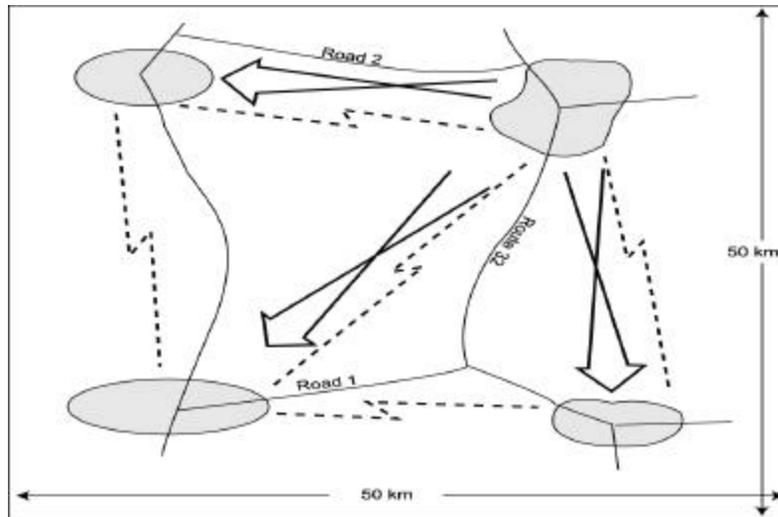


Figure A-2. Non-contiguous maneuver areas, footprints, and connectivity

- C. Airspace management is a critical element in combined arms training and must be carefully considered when planning maneuver/training area requirements. Units are required to designate airspace for airborne intelligence gathering platforms, close air support, air defense and field artillery, and mortar firing as part of the training of the combined arms team. Army Regulations 95-2, and 385-63 provide information on designating, using, and managing special-use airspace. Federal Aviation Administration Handbook 7400.2 provides stipulations and requirements. Figures A-4 and A-5 show aviation unit collective training – the maneuver area and airspace required to train selected ARTEP tasks. These figures also identify contiguous maneuver areas required for training to include the 20 km x 25 km and 16 km x 13 km maneuver areas, Holding Area, FARP, Assembly Area, and Pick-up Zone. The figures also show the non-contiguous maneuver areas required to train aviation units to include the air routes to and from the contiguous maneuver areas.

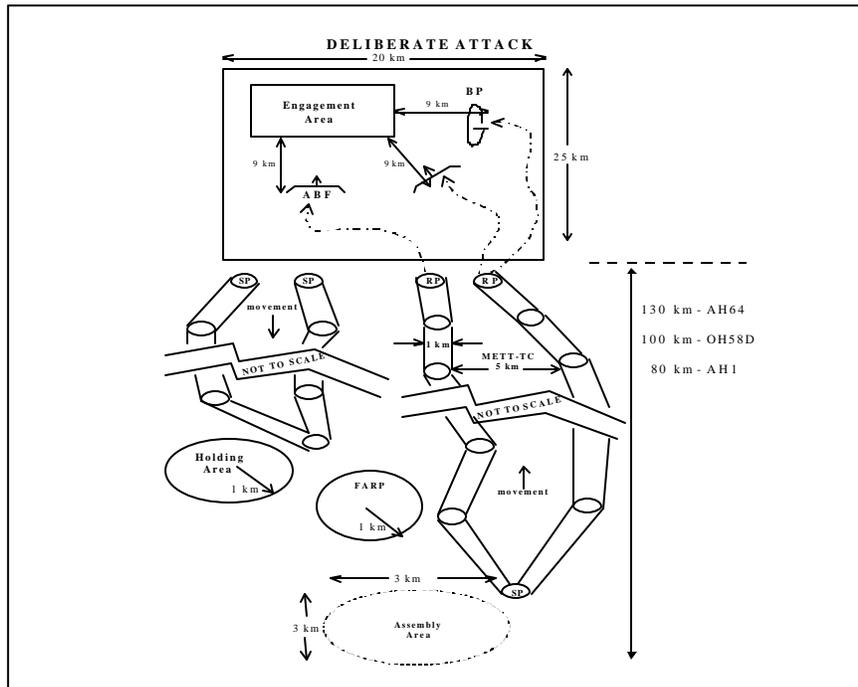


Figure A-3. Aviation unit contiguous/non-contiguous deliberate attack maneuver area requirements

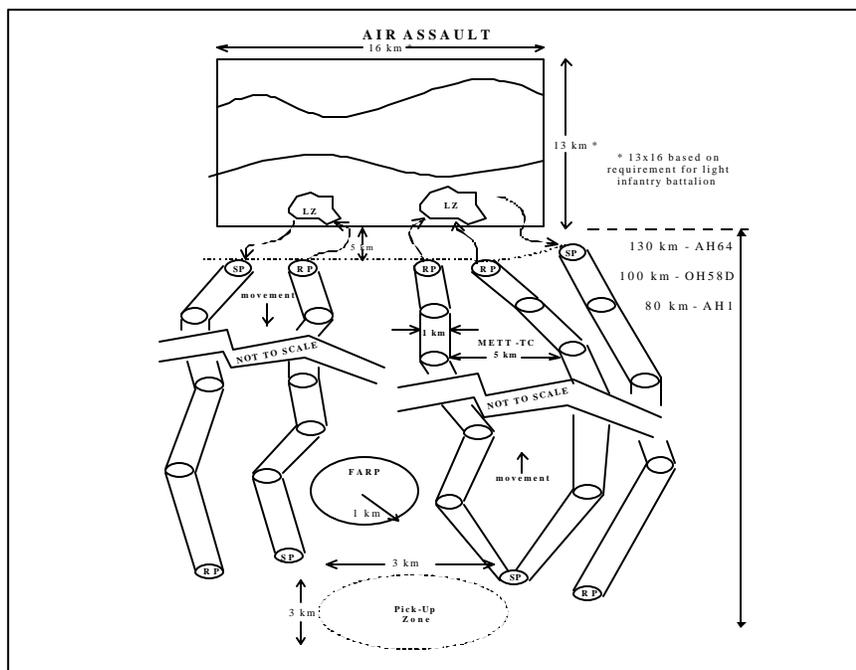


Figure A-4. Aviation unit contiguous/non-contiguous air assault maneuver area requirements

A-4. Introduction. This table includes units in or supporting mechanized infantry and armor divisions. The unit ARTEPs are listed in ascending order.

Table A-1. Mechanized Infantry and Armor Division Maneuver/Training Area Requirements			
Units and Tasks	Maneuver Area Requirements	Annual Repetitions	Days per Repetition
Attack Helo Co (AH-64) (ARTEP 1-112-MTP)			
• Assembly area	1 x 1 = 1 km ²	4	6
• Screen	10 x 18 = 180 km ²	2	1
• Route recon	10 x 30 = 300 km ²	3	1
• Zone recon	10 x 30 = 300 km ²	4	1
• Area recon	10 x 10 = 100 km ²	4	1
• Deliberate attack	20 x 25 = 500 km ²	12	1
• Air assault security	16 x 18 = 288 km ²	2	1
Assault Helicopter Co (ARTEP 1-113-MTP)			
• Assembly area	1 x 1 = 1 km ²	5	6
• Air assault	16 x 18 = 288 km ²	10	1
• Air volcano	5 x 1 = 5 km ²	5	1
• FATHAWK	5 x 2 = 10 km ²	10	1
• Combat svc spt opns	14 x 31 = 434 km ²	2	1
Air Cavalry/Reconnaissance Squadron/Troop (ARTEP 1-114-MTP)			
• Assembly area	1 x 1 = 1 km ²	6	6
• Screen	10 x 18 = 180 km ²	3	1
• Route recon	10 x 30 = 300 km ²	6	1
• Zone recon	10 x 30 = 300 km ²	6	1
• Area recon	10 x 10 = 100 km ²	6	1
• Deliberate attack	20 x 25 = 500 km ²	16	1
NBC Recon Platoon (ARTEP 3-207-10-MTP)			
• NBC recon (Route)	1 x 10 = 10 km ²	4	1
• NBC recon (Zone)	5 x 10 = 50 km ²	4	1
• NBC recon (Area)	3 x 3 = 9 km ²	4	1
• NBC survey	2 x 10 = 20 km ²	4	1
• Conventional recon	5 x 5 = 25 km ²	4	1

Table A-1. Mechanized Infantry and Armor Division Maneuver/Training Area Requirements			
Units and Tasks	Maneuver Area Requirements	Annual Repetitions	Days per Repetition
Smoke/Decon Platoon (ARTEP 3-457-10-MTP)			
• Smoke opns-long duration	10 x 10 = 100 km ²	6	1
• Conceal river crossing	5 x 5 = 25 km ²	6	1
• Decontamination opns	3 x 3 = 9 km ²	6	1
• Conceal breach	5 x 5 = 25 km ²	6	1
Chemical Co, Hvy Div (ARTEP 3-457-30-MTP)			
• Base cluster opns	3 x 3 = 9 km ²	2	2
Bridge Platoon (ARTEP 5-473-37-MTP)			
• Fixed bridge operations	8 x 12 = 96 km ²	2	1
• Float bridge operations	8 x 12 = 96 km ²	2	1
Bridge Company (ARTEP 5-473-37-MTP)			
• Fixed bridge operations	8 x 12 = 96 km ²	2	1
• Float bridge operations	8 x 12 = 96 km ²	2	1
Engineer Battalion (ARTEP 5-335-66-MTP)			
• Mobility operations	12 x 16 = 192 km ²	2	1
• Countermobility operations	12 x 16 = 192 km ²	2	1
• Survivability operations	12 x 16 = 192 km ²	2	1
• General engineering	12 x 16 = 192 km ²	2	1
• Fight as Engineers	6 x 17 = 102 km ²	2	1
Engineer Platoon (ARTEP 5-337-10-MTP)			
• Mobility operations	4 x 12 = 48 km ²	2	1
• Countermobility operations	4 x 12 = 48 km ²	2	1
• Survivability operations	4 x 12 = 48 km ²	2	1
• Sustainment engineering	4 x 12 = 48 km ²	2	1
Engineer Company (ARTEP 5-337-35-MTP)			
• Mobility operations	8 x 12 = 96 km ²	2	1
• Countermobility operations	8 x 12 = 96 km ²	2	1
• Survivability opns	8 x 12 = 96 km ²	2	1

Table A-1. Mechanized Infantry and Armor Division Maneuver/Training Area Requirements			
Units and Tasks	Maneuver Area Requirements	Annual Repetitions	Days per Repetition
• General engineering	8 x 12 = 96 km ²	2	1
• Fight as engineers	6 x 14 = 84 km ²	2	1
FA Battery, 155mm SP [Cav How Brty Identical] (ARTEP 6-037-30-MTP)			
• Deliver fires	5 x 31 = 155 km ²	TRC A=4 / C=2	2
• Move	3 x 5 = 15 km ²	TRC A=12/C=6	1
• Survive	4 km ²	1	1
FA Platoon, 155mm SP (ARTEP 6-037-30-MTP)			
• Deliver fires	3 x 31 = 93 km ²	TRC A=2 / C=1	1
• Move	2 x 2 = 4 km ²	TRC A=12/C=6	1
• Survive	4 km ²	1	1
FA Bn, 155mm SP (ARTEP 6-115-MTP)			
• Deliver fires	15 x 31 = 465 km ²	TRC A=4 / C=2	3
• Move	3 x 15 = 45 km ²	TRC A=12/C=6	1
• Survive	4 km ²	1	1
HHB, 155mm SP (ARTEP 6-115-MTP)			
• Move	3 x 5 = 15 km ²	TRC A=12/C=6	1
• Survive	4 km ²	1	1
Service Battery, 155mm SP (ARTEP 6-115-MTP)			
• Move	3 x 5 = 15 km ²	TRC A=12/C=6	1
• Survive	4 km ²	1	1

Table A-1. Mechanized Infantry and Armor Division Maneuver/Training Area Requirements			
<i>Units and Tasks</i>	<i>Maneuver Area Requirements</i>	<i>Annual Repetitions</i>	<i>Days per Repetition</i>
FA Bn, MLRS/TA (ARTEP 6-395-MTP)			
• Deliver fires	20 x 18 = 360 km ²	TRC A=2 / C=1	3
• Move	3 x 15 = 45 km ²	TRC A=12/C=6	1
• Survive	4 km ²	1	1
FA Battery, MLRS (ARTEP 6-397-MTP)			
• Deliver fires	10 x 18 = 180 km ²	TRC A=2 / C=1	2
• Move	3 x 5 = 15 km ²	TRC A=12/C=6	1
• Survive	4 km ²	1	1
FA Platoon, MLRS (ARTEP 6-397-MTP)			
• Deliver fires	4 x 18 = 72 km ²	TRC A=2/ C=1	1
• Move	3 x 3 = 9 km ²	TRC A=12/C=6	1
• Survive	4 km ²	1	1
Mech Inf Rifle Platoon/Squad (ARTEP 7-7J-MTP)			
• Recon and security			
• Offense	4 x 6 = 24 km ²	4	2
• Defense	3 x 6 = 18 km ²	4	2
• Retrograde	3 x 10 = 30 km ²	4	2
• Stability	3 x 6 = 18 km ²	4	2
• Support	3 x 6 = 18 km ²	4	2
Task Force Mortar Platoon (ARTEP 7-90-MTP)			
• Recon and security			
• Offense	4 x 15 = 60 km ²	4	2
• Defense	4 x 7 = 28 km ²	4	2
• Retrograde	3 x 10 = 30 km ²	4	2
• Stability	3 x 6 = 18 km ²	4	2

Table A-1. Mechanized Infantry and Armor Division Maneuver/Training Area Requirements			
Units and Tasks	Maneuver Area Requirements	Annual Repetitions	Days per Repetition
• Support	3 x 6 = 18 km ²	4	2
Antiarmor Company/Platoon/Section (ARTEP 7-91-MTP)			
• Recon and security			
• Offense	4 x 15 = 60 km ²	3	2
• Defense	4 x 7 = 28 km ²	3	2
• Retrograde	3 x 10 = 30 km ²	3	2
• Stability	3 x 10 = 30 km ²	3	2
• Support	3 x 10 = 30 km ²	3	2
Long-Range Surveillance Det (ARTEP 7-93-MTP)			
• Recon and security	10 x 15 = 150 km ²	2	5
• Offense	10 x 15 = 150 km ²	2	5
• Defense	10 x 15 = 150 km ²	2	5
• Retrograde	10 x 15 = 150 km ²	2	5
• Stability	10 x 15 = 150 km ²	2	5
• Support	8 x 12 = 96 km ²	2	5
Medical Co, MSB, Spt Cmd, Hvy Div (ARTEP 8-057-30-MTP)			
• Deploy/Redploy	8 x 8 = 64 km ²	2	1
• Relocate	8 x 8 = 64 km ²	2	1
• Establish	8 x 8 = 64 km ²	2	1
• Perform opnl mission	8 x 8 = 64 km ²	2	1
• Defend	8 x 8 = 64 km ²	2	1
Medical Co, FSB, Spt Cmd, Hvy Div/Digitized Div (ARTEP 8-058/158F-30-MTP)			
	8 x 8 = 64 km ²	2	1
• Deploy	8 x 8 = 64 km ²	2	1
• Relocate	8 x 8 = 64 km ²	2	1
• Establish	8 x 8 = 64 km ²	2	1
• Perform opnl mission	8 x 8 = 64 km ²	2	1
• Defend	8 x 8 = 64 km ²	2	1
• Redeploy	8 x 8 = 64 km ²	2	1

Table A-1. Mechanized Infantry and Armor Division Maneuver/Training Area Requirements			
Units and Tasks	Maneuver Area Requirements	Annual Repetitions	Days per Repetition
Medical Co, DSB, Digitized (ARTEP) 8-257-30			
• Deploy	8 x 8 = 64km ²	2	1
• Relocate	8 x 8 = 64km ²	2	1
• Establish	8 x 8 = 64km ²	2	1
• Perform Opnl Mission	8 x 8 = 64km ²	2	1
• Defend	8 x 8 = 64km ²	2	2
• Redeploy	8 x 8 = 64km ²	2	1
Medical Co, Air Ambulance (ARTEP 8-279-30-MTP)			
• Deploy	30 x 20 = 600 km ²	2	1
• Relocate	30 x 20 = 600 km ²	2	1
• Establish	30 x 20 = 600 km ²	2	1
• Perform opnl mission	30 x 20 = 600 km ²	2	2
• Defend	30 x 20 = 600 km ²	2	1
• Redeploy	30 x 20 = 600 km ²	2	1
Medical Co, Spt Bn, Hvy Sep Bde / Sep Inf Bde, & Medical Troop, Spt Squadron, Abn/ACR (ARTEP 8-437-30-MTP)			
• Deploy	8 x 8 = 64 km ²	2	1
• Relocate	8 x 8 = 64 km ²	2	1
• Establish	8 x 8 = 64 km ²	2	1
• Perform opnl mission	8 x 8 = 64 km ²	2	1
• Defend	8 x 8 = 64 km ²	2	1
• Redeploy	8 x 8 = 64 km ²	2	1
Medical Co, Ground Ambulance (ARTEP 8-453 (MRI)-30-MTP)			
• Deploy	8 x 8 = 64 km ²	2	1
• Relocate	8 x 8 = 64 km ²	2	1
• Establish	8 x 8 = 64 km ²	2	1
• Perform opnl mission	8 x 8 = 64 km ²	2	1
• Defend	8 x 8 = 64 km ²	2	1
• Redeploy	8 x 8 = 64 km ²	2	1

Table A-1. Mechanized Infantry and Armor Division Maneuver/Training Area Requirements			
Units and Tasks	Maneuver Area Requirements	Annual Repetitions	Days per Repetition
Medical Co, Ground Ambulance (ARTEP 8-453-30-MTP)			
• Deploy	8 x 8 = 64 km ²	2	1
• Relocate	8 x 8 = 64 km ²	2	1
• Establish	8 x 8 = 64 km ²	2	1
• Perform opnl mission	8 x 8 = 64 km ²	2	1
• Defend	8 x 8 = 64 km ²	2	1
• Redeploy	8 x 8 = 64 km ²	2	1
Forward Surgical Team (ARTEP 8-518-10-MTP)			
• Deploy	2 x 2 = 4 km ²	2	1
• Relocate	2 x 2 = 4 km ²	2	1
• Establish	2 x 2 = 4 km ²	2	1
• Perform opnl mission	2 x 2 = 4 km ²	2	2
• Defend	2 x 2 = 4 km ²	2	1
• Redeploy	2 x 2 = 4 km ²	2	1
Combat Spt Hospital (ARTEP 8-705-MTP)			
• Deploy	8 x 12 = 96 km ²	2	1
• Relocate	8 x 12 = 96 km ²	2	1
• Establish	8 x 12 = 96 km ²	2	1
• Perform opnl mission	8 x 12 = 96 km ²	2	2
• Defend	8 x 12 = 96 km ²	2	1
• Redeploy	8 x 12 = 96 km ²	2	1
Signal Battalion (ARTEP 11-065-30-MTP) (ARTEP 11-067-30-MTP)			
• Signal Tactical Operations	30 x 30 = 900 km ²	4	5
Task Force Scout Platoon (ARTEP 17-57-10-MTP)			
• Security operations	4 x 30 = 120 km ²	2	5
• Recon operations	4 x 30 = 120 km ²	2	5

Table A-1. Mechanized Infantry and Armor Division Maneuver/Training Area Requirements			
<i>Units and Tasks</i>	<i>Maneuver Area Requirements</i>	<i>Annual Repetitions</i>	<i>Days per Repetition</i>
Scout Platoon (ARTEP 17-57-10-MTP)			
• Security operations	5 x 27 = 135 km ²	2	5
• Recon operations	5 x 27 = 135 km ²	2	5
Maintenance Platoon (ARTEP 17-236-10-MTP)			
• Provide maintenance support	1.5 x 3 = 4.5 km ²	2	5
• Conduct recovery operations	1.5 x 3 = 4.5 km ²	2	5
Support Platoon (ARTEP 17-236-11-MTP)			
• Provide logistical support	1 x 20 = 20 km ²	2	5
Medical Platoon (ARTEP 17-236-12-MTP)			
• Provide health services support	1 x 8 = 8 km ²	2	5
Tank Platoon (ARTEP 17-237-10-MTP)			
• Move	2 x 10 = 20 km ²	2	2
• Attack	1 x 3 = 3 km ²	2	2
• Defend	1 x 1 = 1 km ²	2	2
Armored Cavalry Squadron (ARTEP 17-385-MTP)			
• Recon - route	60x90 = 5400 km ²	2	2 days for all recon missions
• Recon - area	60x90 = 5400 km ²	2	
• Recon - zone	60x90 = 5400 km ²	2	
• Recon in force	60x90 = 5400 km ²	2	
• Security - screen	60x90 = 5400 km ²	2	2 days for all security msns.
• Security - guard	60x90 = 5400 km ²	2	
• Security - cover	60x90 = 5400 km ²	2	
• Security - area	60x90 = 5400 km ²	2	
• Security - route	60x90 = 5400 km ²	2	
• Security - convoy	60x90 = 5400 km ²	2	

Table A-1. Mechanized Infantry and Armor Division Maneuver/Training Area Requirements			
Units and Tasks	Maneuver Area Requirements	Annual Repetitions	Days per Repetition
• Economy - attack	60x90 = 5400 km ²	2	2 days for all economy msns.
• Economy - defend	60x90 = 5400 km ²	2	
• Economy - mvmt to contact	60x90 = 5400 km ²	2	
• Economy - retrograde	60x90 = 5400 km ²	2	
Armored Cav Troop (ARTEP 17-487-30-MTP)			
• Recon	12 x 30 = 360 km ²	2	2
• Security	12 x 30 = 360 km ²	2	2
• Defense	4 x 15 = 60 km ²	2	2
• Offense	2 x 13 = 26 km ²	2	2
Combat Support MP Plt (ARTEP 19-313-10-MTP)			
• Area security	12 x 12 = 144 km ²	2	1
• Maneuver and mobility spt	12 x 12 = 144 km ²	2	1
• Internment/re-settlement	12 x 12 = 144 km ²	2	1
• Law and order	12 x 12 = 144 km ²	2	1
• Police intelligence	12 x 12 = 144 km ²	2	1
Combat Support MP Co (ARTEP 19-313-30-MTP)			
• Area security	12 x 12 = 144 km ²	2	1
• Maneuver and mobility spt	12 x 12 = 144 km ²	2	1
• Internment/re-settlement	12 x 12 = 144 km ²	2	1
• Law and order	12 x 12 = 144 km ²	2	1
• Police intelligence	12 x 12 = 144 km ²	2	1
Long-Rge Surv Det			
• Surveillance ops	1 x 6 = 6 km ²	4	1
DS MI Co (Digitized Div) (ARTEP 34-387-30-MTP)			
• Ground sensor spt	1 x 1 = 1 km ²	4	1
• Ground surv spt	1 x 10 = 10 km ²	4	1
• UAV launch and recovery support	1 x 1 = 1 km ²	4	2

Table A-1. Mechanized Infantry and Armor Division Maneuver/Training Area Requirements			
Units and Tasks	Maneuver Area Requirements	Annual Repetitions	Days per Repetition
• UAV recon	125 km radius airspace	4	2
• Provide Intel Spt	3 x 10 = 30 km ²	4	3
GS MI Co (Digitized Div) (ARTEP 34-388-30-MTP)			
• UAV launch and recovery support	1 x 1 = 1 km ²	4	2
• UAV recon	125 km radius airspace	4	2
• CI/HUMINT opns	2 x 2 = 4 km ²	4	1
• Provide intel spt	3 x 10 = 30 km ²	4	3
DS MI Co (Hvy) (ARTEP 34-397-30-MTP)			
• Ground sensor spt	1 x 1 = 1 km ²	4	1
• Ground surv	1 x 10 = 10 km ²	4	1
• Provide intel spt	3 x 10 = 30 km ²	4	3
GS MI Co (Hvy) (ARTEP 34-398-30-MTP)			
• CI/HUMINT opns	2 x 2 = 4 km ²	4	1
• Provide intel spt	3 x 10 = 30 km ²	4	3
STINGER Plt/STINGER Plt (Light and Special) (ARTEP 44-117-11-MTP)			
• AD for static asset	5 x 5 = 25 km ²	4	2
• AD for mobile asset	5 x 5 = 25 km ²	4	2
• AD for movement to contact	5 x 5 = 25 km ²	4	2
• AD for breaching operations	5 x 5 = 25 km ²	4	2
Avenger Platoon (ARTEP 44-117-22-MTP)			
• AD of static asset	5 x 5 = 25 km ²	4	2
• AD of mobile asset	5 x 5 = 25 km ²	4	2
• AD of task force	5 x 5 = 25 km ²	4	2
ADA Bn Hvy Div/ADA Bn Hvy Div (Digitized) (ARTEP 44-175-MTP)			
• Conduct AD opns (Defense)	10 x 10 = 100 km ²	2	3
• Conduct AD opns (Offense)	10 x 10 = 100 km ²	2	3
• Provide cmd/control	10 x 10 = 100 km ²	2	3

Table A-1. Mechanized Infantry and Armor Division Maneuver/Training Area Requirements			
Units and Tasks	Maneuver Area Requirements	Annual Repetitions	Days per Repetition
Sentinel Sensor Plt/ADA Sensor Plt C4I (Light) (ARTEP 44-176-15-MTP)			
• EW in offensive opns	5 x 10 = 50 km ²	4	1
• EW in defensive opns	5 x 5 = 25 km ²	4	1
• EW in movement to contact	8 x 31 = 24 km ²	4	1
Linebacker Plt (Hvy Div) and ADA Plt BSFV (ARTEP 44-177-15-MTP)			
• AD for breaching opn	5 x 5 = 25 km ²	4	2
• AD for mvmt to contact	5 x 5 = 25 km ²	4	2
• AD for task force	5 x 5 = 25 km ²	4	2
ADA Btry Light, Abn, Air Asslt, and Hvy Divisions and Corps/ ADA Btry Bradley STINGER Fighting Veh/ADA Btry Gun or Stinger/Avenger Btry ARTEP 44-177-35-MTP) (ARTEP 44-117-30-MTP)			
• AD for Div assets	6 x 20 = 120 km ²	2	3
ADA Btry, -ACR-Mech Inf Bde (ARTEP 44- 413-34-MTP)			
• AD of static asset	10 x 10 = 100 km ²	4	3
• AD of mobile asset	3 x 12 = 36 km ²	4	3
Transportation Motor Trnsp Co, MSB, Hvy Div (ARTEP 55-158-30-MTP)			
• Deploy/conduct maneuver	2 x 2 = 4km ²	2	1
• Exercise cmd/control	2 x 2 = 4km ²	2	1
• Perform CSS	2 x 2 = 4km ²	2	2
• Protect the force	2 x 2 = 4km ²	2	1
TMT Co, Div Spt Bn, Dig Div (ARTEP 55-288-30-MTP)			
• Deploy/conduct maneuver	2 x 2 = 4km ²	2	1
• Exercise cmd/control	2 x 2 = 4km ²	2	1
• Perform CSS	2 x 2 = 4km ²	2	2
• Protect the force	2 x 2 = 4km ²	2	1

Table A-1. Mechanized Infantry and Armor Division Maneuver/Training Area Requirements			
<i>Units and Tasks</i>	<i>Maneuver Area Requirements</i>	<i>Annual Repetitions</i>	<i>Days per Repetition</i>
Forward Support Bn (ARTEP 63-005-MTP)			
• Tactical operations	6 x 20 = 120 km ²	2	5
Main Support Bn (ARTEP 63-136-MTP) (ARTEP 63-136-30-MTP)			
• Tactical operations	6 x 20 = 120 km ²	2	5
Mech Inf Company (ARTEP 71-1-MTP)			
• Movement to contact	6 x 14 = 84 km ²	2	2
• Attack	5 x 10 = 50 km ²	2	2
• Defend	3 x 8 = 24 km ²	2	2
• Retrograde	6 x 17 = 102 km ²	2	2
• Raid	3 x 8 = 24 km ²	2	2
• Ambush	5 x 10 = 50 km ²	2	2
• Recon and security			
Tank Company (ARTEP 71-1-MTP)			
• Movement to contact	2.5 x 12 = 30 km ²	2	2
• Attack	2.5 x 7 = 17.5 km ²	2	2
• Defend	2.5 x 4 = 10 km ²	2	2
• Retrograde	2.5 x 9 = 22.5 km ²	2	2
• Security	3 x 8 = 24 km ²	2	2
Mech Inf/Armor Task force (ARTEP 71-2-MTP)			
• Movement to contact	8 x 31 = 248 km ²	2	2
• Offense	4 x 17 = 68 km ²	2	2
• Defense	6 x 23 = 138 km ²	2	2
• Retrograde	6 x 23 = 138 km ²	2	2
• Recon and security		2	2

Table A-1. Mechanized Infantry and Armor Division Maneuver/Training Area Requirements			
Units and Tasks	Maneuver Area Requirements	Annual Repetitions	Days per Repetition
<p>Notes for Table A-1. Mechanized infantry and armor division maneuver/training area requirements.</p> <ol style="list-style-type: none"> 1. Aviation Unit deliberate attack requirements include attacks in the close and deep fight, but not the hasty attack. Maneuver area dimensions are for a battalion mission, enroute distance will vary depending on METT-TC. While the Army may not own the land under the air routes, certain factors must be considered in selecting routes. Examples are airspace, noise complaints, populated areas, bright lights and other hazards. 2. Air assault operational maneuver area is based on light infantry offensive operations, but does not include landing zones and pick-up zones. 3. The Engineer Bridge Company training area for rafting operations requires a wet gap (either river or lake) greater than 75 meters. 5. Artillery units accomplish other ARTEP missions and MTP tasks concurrently with Deliver Fires, Move and Survive and within the same maneuver areas. 6. Artillery unit "Survive" missions vary by type and size of unit, in these tables they are all assumed to be 1 km x 4 km = 4 km², once per year, one day in length. 7. When artillery units use munitions not approved for overhead firing, the maneuver space in the "Deliver Fires" block apply. With munitions approved for overhead firing, the maneuver space in the "Move" block applies, plus an impact area of 6 x 8 km. 8. Armor and Infantry Reconnaissance and security tasks are integrated into other ARETEP tasks and do not include additional maneuver area. 9. The Signal Battalion and its subordinate units/nodes occupy relatively small spaces of maneuver area, however, the electronic signals may cover the entire 900 km² area. 10. The Long Range Surveillance Detachment does not physically occupy 150 km², footprints of individual teams are very small. This is a good example of the requirement for and use of "non-contiguous" maneuver area. 11. The Military Police Company and Platoon execute their security and law and order missions over a large non-contiguous maneuver area, while their mounted and dismounted footprints are very small. 12. The UAV airspace requirement is 3000-500 feet (altitude), and takeoff and landing practice requires an airspace requirement of 300-500 feet. 			

A-5. Introduction. This table includes units in or supporting a light infantry division. It includes unit ARTEPs, missions, and mission maneuver area requirements. The unit ARTEPs are listed in ascending order.

Table A- 2. Light Division Maneuver/training area Requirements			
Units and Tasks	Maneuver Area Requirements	Annual Repetitions	Days per Repetition
Attack Helicopter Co (Kiowa Warrior) (ARTEP 1-112-MTP)			
• Assembly area	1 x 1 = 1 km ²	4	6
• Screen	10 x 18 = 180 km ²	2	1
• Route recon	10 x 30 = 300 km ²	3	1
• Zone recon	10 x 30 = 300 km ²	4	1
• Area recon	10 x 10 = 100 km ²	4	1
• Deliberate attack	20 x 25 = 500 km ²	12	1
• Air assault security	16 x 18 = 288 km ²	2	1
Assault Helicopter Co (ARTEP 1-113-MTP)			
• Assembly area	1 x 1 = 1 km ²	5	6
• Air assault security	16 x 18 = 288 km ²	10	1
• Air Volcano	5 x 1 = 5 km ²	5	1
• FATHAWK	5 x 2 = 10 km ²	10	1
• Combat svc spt opns	14 x 31 = 434 km ²	2	1
Air Cavalry/Recon Squadron/Troop (ARTEP 1-114-MTP)			
• Assembly area	1 x 1 = 1 km ²	6	6
• Screen	10 x 18 = 180 km ²	3	1
• Route recon	10 x 30 = 300 km ²	6	1
• Zone recon	10 x 30 = 300 km ²	6	1
• Area recon	10 x 10 = 100 km ²	6	1
• Deliberate attack	20 x 25 = 500 km ²	16	1
• Air assault security	16 x 18 = 288 km ²	3	1
Engineer Platoon (ARTEP 5-027-10-MTP) (ARTEP 5-157-10-MTP) (ARTEP 5-217-10-MTP)			
• Mobility operations	2 x 10 = 20 km ²	2	1
• Countermobility operations	2 x 10 = 20 km ²	2	1
• Countermobility operations	2 x 10 = 20 km ²	2	1
• Survivability operations	2 x 10 = 20 km ²	2	1
• Sustainment engineering	2 x 10 = 20 km ²	2	1

Table A- 2. Light Division Maneuver/training area Requirements			
Units and Tasks	Maneuver Area Requirements	Annual Repetitions	Days per Repetition
• Fight as infantry	3 x 10 = 30 km ²	2	1
Engineer Co, Light/Abn/Air Assault (ARTEP 5-157-35-MTP) (ARTEP 5-217-35-MTP)			
• Mobility operations	3.5 x 10 = 35 km ²	2	1
• Countermobility operations	3.5 x 10 = 35 km ²	2	1
• Survivability operations	3.5 x 10 = 35 km ²	2	1
• Sustainment engineering	3.5 x 10 = 35 km ²	2	1
• Fight as infantry	3.5 x 10 = 35 km ²	2	1
Engineer Bn, Light/Abn/Air Assault (ARTEP 5-025-66-MTP) (ARTEP 5-155-66-MTP) (ARTEP 5-215-66-MTP)			
• Mobility operations	7 x 10 = 70 km ²	2	1
• Countermobility operations	7 x 10 = 70 km ²	2	1
• Survivability operations	7 x 10 = 70 km ²	2	1
• Sustainment engineering	7 x 10 = 70 km ²	2	1
• Fight as infantry	7 x 10 = 70 km ²	2	1
FA Battery, 155mm Towed, Sep LID (ARTEP 6-037-30-MTP)			
• Deliver fires	4 x 31 = 124 km ²	TRC A=6 / C=3	1
• Move	3 x 5 = 15 km ²	TRC A=12/C=6	1
• Survive	4 km ²	1	1
FA Platoon, 155mm Towed (ARTEP 6-037-30-MTP)			
• Deliver fires	3 x 31 = 93 km ²	TRC A=6 / C=3	1
• Move	2 x 2 = 4 km ²	TRC A=12/C=6	1
• Survive	4 km ²	1	1
FA Battery, 105mm Towed (ARTEP 6-037-30-MTP)			
• Deliver fires	4 x 20 = 80 km ²	TRC A=7 / C=3	2
• Move	3 x 5 = 15 km ²	TRC A=12/C=6	1
• Survive	4 km ²	1	1

Table A- 2. Light Division Maneuver/training area Requirements			
Units and Tasks	Maneuver Area Requirements	Annual Repetitions	Days per Repetition
82d Abn Div Arty, Battery, 105mm (ARTEP 6-037-30-MTP)			
• Battery CALFEX	4 x 20 = 80 km ²	9	1
82d Abn Div Arty, 105mm (ARTEP 6-102-MTP)			
• Live-fire exercise for div ready bde (DRB)	30 x 22 = 660 km ²	2	2
HHB, 105mm Towed (ARTEP 6-115-MTP)			
• Move	3 x 5 = 15 km ²	TRC A=12/C=6	1
• Survive	4 km ²	1	1
Service Battery, 105mm (T) (ARTEP 6-115-MTP)			
• Move	3 x 5 = 15 km ²	TRC A=12/C=6	1
• Survive	4 km ²	1	1
82d Abn Div Arty, Battalion, 105mm (ARTEP 6-115-MTP)			
• Fire coordination exercise for DRB	15 x 20 = 300 km ²	6	2
FA Battalion, 105mm Towed 4(ARTEP 6-115-MTP)			
• Deliver fires	15 x 20 = 300 km ²	TRC A=4 / C=2	3
• Move	3 x 15 = 45 km ²	TRC A=12/C=6	1
• Survive	4 km ²	1	1
Rifle Platoon (ARTEP 7-8-MTP)			
• Recon and security			
• Offense	3 x 6 = 18 km ²	2	2
• Defense	3 x 4 = 12 km ²	2	2
• Retrograde	3 x 4 = 12 km ²	2	2
• Stability	3 x 4 = 12 km ²	2	2
• Support	3 x 4 = 12 km ²	2	2

Table A- 2. Light Division Maneuver/training area Requirements			
Units and Tasks	Maneuver Area Requirements	Annual Repetitions	Days per Repetition
Rifle Company (ARTEP 7-10-MTP)			
• Recon and Security			
• Offense	6 x 8 = 48 km ²	2	2
• Defense	6 x 4 = 24 km ²	2	2
• Retrograde	6 x 10 = 60 km ²	2	2
• Stability	6 x 4 = 24 km ²	2	2
• Support	6 x 4 = 24 km ²	2	2
Light Infantry Bn (ARTEP 7-20-MTP)			
• Recon and security			
• Offense	12 x 8 = 96 km ²	2	2
• Defense	12 x 6 = 72 km ²	2	2
• Retrograde	12 x 19 = 120 km ²	2	2
• Stability	8 x 8 = 64 km ²	2	2
• Support	8 x 8 = 64 km ²	2	2
Mortar Platoon (ARTEP 7-90-MTP)			
• Recon and security			
• Offense	4 x 7 = 28 km ²	2	2
• Defense	4 x 7 = 28 km ²	2	2
• Retrograde	4 x 7 = 28 km ²	2	2
• Stability	4 x 7 = 28 km ²	2	2
• Support	4 x 7 = 28 km ²	2	2
Antiarmor Platoon (ARTEP 7-91-MTP)			
• Recon and security			
• Offense	4 x 15 = 60 km ²	2	2
• Defense	4 x 15 = 60 km ²	2	2
• Retrograde	4 x 15 = 60 km ²	2	2
• Stability	4 x 15 = 60 km ²	2	2
• Support	4 x 15 = 60 km ²	2	2

Table A- 2. Light Division Maneuver/training area Requirements			
Units and Tasks	Maneuver Area Requirements	Annual Repetitions	Days per Repetition
Scout Platoon (ARTEP 7-92-MTP)			
• Recon and security	2 x 10 = 20 km ²	2	2
• Offense	2 x 10 = 20 km ²	2	2
• Defense	2 x 10 = 20 km ²	2	2
• Retrograde	2 x 10 = 20 km ²	2	
• Stability	2 x 10 = 20 km ²	2	
• Support	2 x 10 = 20 km ²	2	
Long-Range Surveillance Det (ARTEP 7-93-MTP)			
• Recon and security	10 x 15 = 150 km ²	2	5
• Offense	10 x 15 = 150 km ²	2	5
• Defense	10 x 15 = 150 km ²	2	5
• Retrograde	10 x 15 = 150 km ²	2	5
• Stability	10 x 15 = 150 km ²	2	5
• Support	8 x 12 = 96 km ²	2	5
Medical Co, Air Ambulance (ARTEP 8-279-30-MTP)			
• Deploy	30 x 20 = 600 km ²	2	1
• Relocate	30 x 20 = 600 km ²	2	1
• Establish	30 x 20 = 600 km ²	2	1
• Perform opnl mission	30 x 20 = 600 km ²	2	2
• Defend	30 x 20 = 600 km ²	2	1
• Redeploy	30 x 20 = 600 km ²	2	1
Medical Co, MSB, Abn, Air Asslt, & Light Inf Div (ARTEP 8-267-30-MTP)			
• Deploy	8 x 8 = 64 km ²	2	1
• Relocate	8 x 8 = 64 km ²	2	1
• Establish	8 x 8 = 64 km ²	2	1
• Perform opnl mission	8 x 8 = 64 km ²	2	1
• Defend	8 x 8 = 64 km ²	2	1
• Redeploy	30 x 20 = 600 km ²	2	1

Table A- 2. Light Division Maneuver/training area Requirements			
Units and Tasks	Maneuver Area Requirements	Annual Repetitions	Days per Repetition
Medical Co, FSB, Abn, Air Asslt, & Light Inf Div			
• Deploy	8 x 8 = 64 km ²	2	1
• Relocate	8 x 8 = 64 km ²	2	1
• Establish	8 x 8 = 64 km ²	2	1
• Perform opnl mission	8 x 8 = 64 km ²	2	1
• Defend	8 x 8 = 64 km ²	2	1
• Redeploy	8 x 8 = 64 km ²	2	1
• Redeploy	8 x 8 = 64 km ²	2	1
Medical Co, Ground Amb (ARTEP 8-453(MRI)-30-MTP)			
• Deploy	4 x 20 = 80 km ²	2	1
• Relocate	4 x 20 = 80 km ²	2	1
• Establish	4 x 20 = 80 km ²	2	1
• Perform opnl mission	4 x 20 = 80 km ²	2	2
• Defend	4 x 20 = 80 km ²	2	1
• Redeploy	4 x 20 = 80 km ²	2	1
Medical Co, Ground Amb (ARTEP 8-453-30-MTP)			
• Deploy	4 x 20 = 80 km ²	2	1
• Relocate	4 x 20 = 80 km ²	2	1
• Establish	4 x 20 = 80 km ²	2	1
• Perform opnl mission	4 x 20 = 80 km ²	2	2
• Defend	4 x 20 = 80 km ²	2	1
• Redeploy	4 x 20 = 80 km ²	2	1
Forward Surgical Team (ARTEP 8-518-10)			
• Deploy	2 x 2 = 4 km ²	2	1
• Relocate	2 x 2 = 4 km ²	2	1
• Establish	2 x 2 = 4 km ²	2	1
• Perform opnl mission	2 x 2 = 4 km ²	2	2
• Defend	2 x 2 = 4 km ²	2	1
• Redeploy	2 x 2 = 4 km ²	2	1

Table A- 2. Light Division Maneuver/training area Requirements			
Units and Tasks	Maneuver Area Requirements	Annual Repetitions	Days per Repetition
Combat Support Hospital (ARTEP 8-705-MTP)			
• Deploy	10 x 12 = 120 km ²	2	1
• Plan	10 x 12 = 120 km ²	2	1
• Relocate	10 x 12 = 120 km ²	2	1
• Establish	10 x 12 = 120 km ²	2	1
• Perform opnl mission	10 x 12 = 120 km ²	2	2
• Defend	10 x 12 = 120 km ²	2	1
• Redeploy	10 x 12 = 120 km ²	2	1
Combat Support MP Plt (ARTEP 19-313-10-MTP)			
• Area security	12 x 12 = 144 km ²	2	1
• Maneuver and mobility support	12 x 12 = 144 km ²	2	1
• Internment/re-settlement	12 x 12 = 144 km ²	2	1
• Law and order	12 x 12 = 144 km ²	2	1
• Police intelligence	12 x 12 = 144 km ²	2	1
Combat Support MP Co (ARTEP 19-313-30-MTP)			
• Area Security	30 x 50 = 1500 km ²	2	1
• Maneuver and mobility support	30 x 50 = 1500 km ²	2	1
• Internment/re-settlement	30 x 50 = 1500 km ²	2	1
• Law and order	30 x 50 = 1500 km ²	2	1
• Police intelligence	30 x 50 = 1500 km ²	2	1
MI Bn (JCF)			
• Ground sensor spt	1 x 1 = 1 km ²	4	1
• Ground surv spt	1 x 10 = 10 km ²	4	1
• CI/HUMINT opns	2 x 2 = 4 km ²	4	1
• Provide intel spt	3 x 10 = 30 km ²	4	3
DS MI Co (Light Div) (ARTEP 34-357-30-MTP)			
• Ground sensor spt	1 x 1 = 1 km ²	4	1
• Ground surv spt	1 x 10 = 10 km ²	4	1
• CI/HUMINT opns	2 x 2 = 4 km ²	4	1
• Provide Intel Spt	3 x 10 = 30 km ²	4	3

Table A- 2. Light Division Maneuver/training area Requirements			
Units and Tasks	Maneuver Area Requirements	Annual Repetitions	Days per Repetition
GS MI Co (Light Div) (ARTEP 34-358-30-MTP)			
• Ground sensor spt	1 x 1 = 1 km ²	4	1
• Ground surv spt	1 x 10 = 10 km ²	4	1
• CI/HUMINT opns	2 x 2 = 4 km ²	4	1
• Provide intel spt	3 x 10 = 30 km ²	4	3
ADA Bn Light, Abn/Air Asslt Divisions and ADA Bn (Light and Special) (ARTEP 44-115-MTP)			
• Conduct AD opns (Defense)	10 x 10 = 100 km ²	2	3
• Conduct AD opns (Offense)	10 x 10 = 100 km ²	2	3
• Provide command and control	10 x 10 = 100 km ²	2	3
STINGER Plt/STINGER Plt (Light and Special) (ARTEP 44-117-11-MTP)			
• AD of static asset	5 x 5 = 25 km ²	4	2
• AD of mobile asset	5 x 5 = 25 km ²	4	2
• AD of movement to contact	5 x 5 = 25 km ²	4	2
• AD for breaching operations	5 x 5 = 25 km ²	4	2
Avenger Platoon (ARTEP 44-117-22-MTP)			
• AD of static asset	5 x 5 = 25 km ²	4	2
• AD of task force	5 x 5 = 25 km ²	4	2
• AD of mobile asset	5 x 5 = 25 km ²	4	2
Sentinel Sensor Plt/ADA Sensor Plt C4I (Light) (ARTEP 44-176-15-MTP)			
• EW in offensive opns	5 x 10 = 50 km ²	4	1
• EW in defensive opns	5 x 5 = 25 km ²	4	1
• EW in movement to contact	8 x 31 = 248 km ²	4	1

Table A- 2. Light Division Maneuver/training area Requirements			
Units and Tasks	Maneuver Area Requirements	Annual Repetitions	Days per Repetition
ADA Btry Light, Abn, Air Asslt and Hvy Divisions and Corps/ ADA Btry Bradley STINGER Fighting Veh/ADA Btry Gun or STINGER /Avenger Btry (ARTEP 44-177-35-MTP) (ARTEP 44-177-30-MTP)			
• AD For div assets	6 x 20 = 120 km ²	2	3
Transportation Motor Transport Co, S&S Bn, Abn/Air Asslt/Light Div (ARTEP 55-158-30-MTP)			
• Deploy/conduct maneuver	2 x 2 = 4km ²	2	1
• Exercise cmd and control	2 x 2 = 4km ²	2	1
• Perform CSS	2 x 2 = 4km ²	2	2
• Protect the force	2 x 2 = 4km ²	2	1
<p>Notes for Table A-2. Light division maneuver/training area requirements.</p> <ol style="list-style-type: none"> 1. Aviation Unit deliberate attack requirements include attacks in the close and deep fight, but not the hasty attack. Maneuver area dimensions are for a battalion mission, enroute distance will vary depending on METT-TC. While the Army may not own the land under the air routes, certain factors must be considered in selecting routes. Examples are airspace, noise complaints, populated areas, bright lights and other hazards. 2. Air assault operational maneuver area is based on light infantry offensive operations, but does not include landing zones and pick-up zones. 3. Artillery units accomplish other ARTEP missions and MTP tasks concurrently with Deliver Fires, Move and Survive and within the same maneuver areas. 4. Artillery unit "Survive" missions vary by type and size of unit, in these tables they are all assumed to be 1 km x 4 km = 4 km², once per year, one day in length. 5. When artillery units use munitions not approved for overhead firing, the maneuver space in the "Deliver Fires" block apply. With munitions approved for overhead firing, the maneuver space in the "Move" block applies, plus an impact area of 6 x 8 km. 6. Infantry Reconnaissance and security tasks are integrated into other ARETEP tasks and do not include additional maneuver area. 7. The Signal Battalion and its subordinate units/nodes occupy relatively small spaces of maneuver area, however, the electronic signals may cover the entire 900 km² area. 8. The Long Range Surveillance Detachment does not physically occupy 150 km², the footprints of individual teams are very small. This is a good example of the requirement for and use of "non-contiguous" maneuver area. 9. The Military Police Company and Platoon execute their security and law and order missions over a large non-contiguous maneuver area, while their mounted and dismounted footprints are very small. 			

A-6. Introduction. This table includes units in echelons above division. It includes unit ARTEPs, missions, and mission maneuver area requirements. The unit ARTEPs are listed in ascending order.

Table A-3. Maneuver/training area Requirements for Selected Units at Echelons above Division			
<i>Units and Tasks</i>	<i>Maneuver Area Requirements</i>	<i>Annual Repetitions</i>	<i>Days per Repetition</i>
Attack Helicopter Troop, ACR (AH-64) (ARTEP 1-112-MTP)			
• Assembly area	1 x 1 = 1 km ²	4	6
• Screen	10 x 18 = 180 km ²	2	1
• Route recon	10 x 30 = 300 km ²	3	1
• Zone recon	10 x 30 = 300 km ²	4	1
• Area recon	10 x 10 = 100 km ²	4	1
• Deliberate attack	20 x 25 = 500 km ²	12	1
• Air assault security	16 x 18 = 288 km ²	2	1
Attack Helicopter Bn, Corps, (AH-64) (ARTEP 1-112-MTP)			
• Assembly area	3 x 3 = 9 km ²	4	6
• FARP	5 x 3 = 15 km ²	4	6
• Screen	10 x 18 = 180 km ²	2	1
• Route recon	10 x 30 = 300 km ²	3	1
• Zone recon	10 x 30 = 300 km ²	3	1
• Area recon	10 x 10 = 100 km ²	4	1
• Deliberate attack ₂	20 x 25 = 500 km ²	12	1
• Air assault security ³	16 x 18 = 288 km ²	2	1
Assault Helicopter Troop, ACR (ARTEP 1-113-MTP)			
• Assembly area	1 x 1 = 1 km ²	5	6
• Air assault ₃	16 x 18 = 288 km ²	10	1
• Air Volcano	5 x 1 = 5 km ²	5	1
• FATHAWK/FARP	5 x 3 = 15 km ²	10	1
• Combat svc spt opns	14 x 31 = 434 km ²	2	1

Table A-3. Maneuver/training area Requirements for Selected Units at Echelons above Division			
Units and Tasks	Maneuver Area Requirements	Annual Repetitions	Days per Repetition
Air Cavalry Troop, ACR (ARTEP 1-114-MTP)			
• Assembly area	1 x 1 = 1 km ²	6	6
• Screen	10 x 18 = 180 km ²	3	1
• Route recon	10 x 30 = 300 km ²	6	1
• Zone recon	10 x 30 = 300 km ²	6	1
• Area recon	10 x 10 = 100 km ²	6	1
• Deliberate attack	20 x 25 = 500 km ²	16	1
• Air assault security	16 x 18 = 288 km ²	3	1
Heavy Lift Helo Bn, Corps/Theater (ARTEP 1-245-MTP)			
• Assembly area	4 x 4 = 16 km ²	5	6
• Air assault	16 x 18 = 288 km ²	10	1
• FATCOW/FARP	5 x 3 = 15 km ²	10	1
• Combat svc spt opns	14 x 31 = 434 km ²	2	1
HHD, Chemical Bn (Corps) (ARTEP 3-116-MTP)			
• Conduct base opns	1 x 1 = 1 km ²	2	2
Chemical Company (Recon) (ARTEP 3-207-10-MTP) (ARTEP 3-457-30-MTP)			
• Conduct NBC recon	5 x 10 = 50 km ²	4	1
• Conduct NBC survey	3 x 5 = 15 km ²	4	1
• Conduct conventional recon	10 x 10 = 100 km ²	4	1
• Conduct base operations	3 x 3 = 9 km ²	2	2
Chemical Company (SPOD) (ARTEP 3-207-10-MTP) (ARTEP 3-457-30-MTP)			
• Conduct NBC recon	5 x 10 = 50 km ²	4	1
• Conduct NBC survey	3 x 5 = 15 km ²	4	1
• Conduct conventional recon	10 x 10 = 100 km ²	4	1
• Conduct base cluster operations	3 x 3 = 9 km ²	2	2

Table A-3. Maneuver/training area Requirements for Selected Units at Echelons above Division			
Units and Tasks	Maneuver Area Requirements	Annual Repetitions	Days per Repetition
Chemical Company (Corps)(Decon) (ARTEP 3-457-10-MTP) (ARTEP 3-457-30-MTP)			
• Conduct decon opns	2 x 5 = 10 km ²	4	1
• Conduct base cluster operations	2 x 2 = 4 km ²	2	2
Chemical Company (Smoke) (ARTEP 3-457-10-MTP) (ARTEP 3-457-30-MTP)			
• Conduct smoke opns	15 x 20 = 300 km ²	4	1
• Conduct base cluster opns (Defend/Sustain)	4 x 4 = 16 km ²	2	2
Chemical Platoon (Mtrz)(D/P)(Abn/Asslt) (ARTEP 3-457-10-MTP)			
• Conduct decon opns	3 x 3 = 9 km ²	6	1
• Conduct smoke opns	5 x 5 = 25 km ²	4	1
Chemical Co(D/P)(Abn/Asslt) (ARTEP 3-457-30-MTP)			
• Conduct base opns	2 x 2 = 4 km ²	2	2
Biological Integrated Detection Sys (BIDS) Plt (ARTEP 3-477-10-MTP)			
• Conduct line array biological survey	1 x 20 = 20 km ²	4	1
• Conduct critical node biological survey	1 x 4 = 4 km ²	4	1
Long-Range Biological Surveillance/Detection Sys (LRBSDS)(UH60) (ARTEP 3-477-10-MTP)			
• Conduct standoff biological survey	15x 20 = 300 km ²	4	1
Engineer Company (CSE) (ARTEP 5-423-35-MTP)			
• Sustainment engineering	4 x 8 = 32 km ²	3	1
• Fight as engineers	4 x 6 = 24 km ²	2	1
Engineer Bn (Corps) (Wheeled)(Abn)(Light) (ARTEP 5-425-66-MTP) (ARTEP 5-445-64-MTP) (ARTEP 5-445-66-MTP)			
• Mobility operations	7 x 10 = 70 km ²	2	1
• Countermobility operations	7 x 10 = 70 km ²	2	1
• Survivability operations	7 x 10 = 70 km ²	2	1
• Sustainment engineering	7 x 10 = 70 km ²	2	1
• Fight as infantry	13 x 16 = 208 km ²	2	1

Table A-3. Maneuver/training area Requirements for Selected Units at Echelons above Division			
Units and Tasks	Maneuver Area Requirements	Annual Repetitions	Days per Repetition
Engineer Platoon (Corps) (Wheeled)(Abn)(Light) (ARTEP 5-427-10-MTP) (ARTEP 5-447-10-MTP) (ARTEP 5-447-11-MTP)			
• Mobility operations	2 x 10 = 20 km ²	2	1
• Countermobility operations	2 x 10 = 20 km ²	2	1
• Survivability operations	2 x 10 = 20 km ²	2	1
• Sustainment engineering	2 x 10 = 20 km ²	2	1
• Fight as infantry	3 x 5.5 = 16.5 km ²	2	1
Engineer Company (Corps) (Wheeled)(Abn)(Light) (ARTEP 5-427-35-MTP) (ARTEP 5-447-35-MTP) (ARTEP 5-447-37-MTP)			
• Mobility operations	3.5 x 10 = 35 km ²	2	1
• Countermobility operations	3.5 x 10 = 35 km ²	2	1
• Survivability operations	3.5 x 10 = 35 km ²	2	1
• Sustainment engineering	3.5 x 10 = 35 km ²	2	1
• Fight as infantry	6 x 8 = 48 km ²	2	1
Engineer Platoon (Corps) (Mech) (ARTEP 5-437-10-MTP)			
• Mobility operations	4 x 12 = 48 km ²	2	1
• Countermobility operations	4 x 12 = 48 km ²	2	1
• Survivability operations	4 x 12 = 48 km ²	2	1
• Sustainment engineering	4 x 12 = 48 km ²	2	1
• Fight as engineers	4 x 6 = 24 km ²	2	1
Engineer Company (Corps) (Mech) (ARTEP 5-437-35-MTP)			
• Mobility operations	8 x 12 = 96 km ²	2	1
• Countermobility operations	8 x 12 = 96 km ²	2	1
• Survivability operations	8 x 12 = 96 km ²	2	1
• Sustainment engineering	8 x 12 = 96 km ²	2	1
• Fight as engineers	6 x 14 = 84 km ²	2	1

Table A-3. Maneuver/training area Requirements for Selected Units at Echelons above Division			
Units and Tasks	Maneuver Area Requirements	Annual Repetitions	Days per Repetition
Engineer Battalion (Corps) (Mech) (ARTEP 5-435-66-MTP)			
• Mobility operations	12 x 16 = 192 km ²	2	1
• Countermobility operations	12 x 16 = 192 km ²	2	1
• Survivability operations	12 x 16 = 192 km ²	2	1
• Sustainment engineering	12 x 16 = 192 km ²	2	1
• Fight as engineers	6 x 17 = 102 km ²	2	1
FA Btry, ACR, 155mm, SP (ARTEP 6-037-30-MTP)			
• Deliver fires	5 x 31 = 155 km ²	TRC A=4 / C=2	2
• Move	3 x 15 = 35 km ²	TRC A=12/C=6	1
• Survive	4 km ²	1	1
FA Battery, 155mm SP/T and 105mm T (ARTEP 6-037-30-MTP)			
• Deliver fires	105mm-4x20=80 km ² 155mm-5x31=155 m2	TRC A=4 / C=2	2
• Move	3 x 5 = 15 km ²	TRC A=12/C=6	2
• Survive	4 km ²	1	1
FA Platoon, 155mm SP (ARTEP 6-037-30-MTP)			
• Deliver fires	3 x 18 = 54 km ²	TRC A=2 / C=1	1
• Move	2 x 2 = 4 km ²	TRC A=12/C=6	1
• Survive	4 km ²	1	1
FA Bn, 155mm SP/T and 105mm T (ARTEP 6-115-MTP)			
• Deliver fires	105-15x20=300km ² 155-15x31=465km ²	TRC A = 4 (105) TRC A = 2 (155) TRC C = 2 (Both)	3
• Survive			
HHB, 155mm SP (ARTEP 6-115-MTP)			
• Move	3 x 5 = 15 km ²	TRC A = 12/C=6	1
• Survive	4 km ²	1	1

Table A-3. Maneuver/training area Requirements for Selected Units at Echelons above Division			
<i>Units and Tasks</i>	<i>Maneuver Area Requirements</i>	<i>Annual Repetitions</i>	<i>Days per Repetition</i>
FA Platoon, MLRS (ARTEP 6-397-MTP)			
• Deliver fires	4 x 18 = 72 km ²	TRC A = 2 / C =1	1
• Move	3 x 3 = 9 km ²	TRC A = 12/C=6	1
• Survive	4 km ²	1	1
FA Battery MLRS (ARTEP 6-397-30-MTP)			
• Deliver fires	10 x 18 = 180 km ²	TRC A = 2 / C =1	1
• Move	3 x 3 = 9 km ²	TRC A = 12/C=6	1
• Survive	4 km ²	1	1
FA Battalion MLRS (ARTEP 6-395-MTP)			
• Deliver fires	30 x 18 = 540 km ²	TRC A = 4 / C=2	3
• Move	3 x 15 = 45 km ²	TRC A = 12/C=6	1
• Survive	4 km ²	1	1
Ranger Platoon (ARTEP 7-8-MTP)			
• Attack	4 x 8 = 32 km ²	4	1
• Defend	3 x 3 = 9 km ²	4	1
• Reconnaissance and security operations	6 x 6 = 36 km ²	4	1
• Raid	3 x 6 = 18 km ²	4	1
• Ambush	3 x 6 = 18 km ²	4	1
• Surveillance operations	4 x 5 = 20 km ²	4	1
Ranger Company (ARTEP 7-10-MTP)			
• Attack	8 x 10 = 80 km ²	4	1
• Defend	4 x 5 = 20 km ²	4	1
• Reconnaissance and security operations	8 x 10 = 80 km ²	4	1
• Raid	6 x 8 = 48 km ²	4	1
• Ambush	6 x 8 = 48 km ²	4	1
• Surveillance operations	8 x 10 = 80 km ²	4	1

Table A-3. Maneuver/training area Requirements for Selected Units at Echelons above Division			
Units and Tasks	Maneuver Area Requirements	Annual Repetitions	Days per Repetition
Infantry Battalion (Ranger) (ARTEP 7-20-MTP)			
• Attack	12 x 16 = 192 km ²	4	1
• Defend	6 x 6 = 36 km ²	4	1
• Reconnaissance and security operations	15 x 15 = 225 km ²	4	1
Medical Co, Air Ambulance (ARTEP 8-279-30-MTP)			
• Deploy	30 x 20 = 600 km ²	2	1
• Relocate	30 x 20 = 600 km ²	2	1
• Establish	30 x 20 = 600 km ²	2	1
• Perform opnl mission	30 x 20 = 600 km ²	2	2
• Defend	30 x 20 = 600 km ²	2	1
• Redeploy	30 x 20 = 600 km ²	2	1
Medical Det, Vet Svc Hqs (ARTEP 8-403-MTP)			
• Deploy	2 x 2 = 4km ²	2	1
• Relocate	2 x 2 = 4km ²	2	1
• Establish	2 x 2 = 4km ²	2	1
• Perform opnl mission	2 x 2 = 4km ²	2	2
• Defend	2 x 2 = 4km ²	2	1
• Redeploy	2 x 2 = 4km ²	2	1
Hqs, Med Cmd (Corps) (ARTEP 8-411(MRI)—projected)			
• Deploy	4 x 4 = 16 km ²	2	1
• Relocate	4 x 4 = 16 km ²	2	1
• Establish	4 x 4 = 16 km ²	2	1
• Perform opnl mission	4 x 4 = 16 km ²	2	2
• Defend	4 x 4 = 16 km ²	2	1
• Redeploy	4 x 4 = 16 km ²	2	1
Hqs Co, Med Cmd (Theater) & Med Bde (EAC/Corps) (ARTEP 8-411(MRI)-30-MTP)			
• Deploy	8 x 8 = 64 km ²	2	1
• Relocate	8 x 8 = 64 km ²	2	1
• Establish	8 x 8 = 64 km ²	2	1

Table A-3. Maneuver/training area Requirements for Selected Units at Echelons above Division			
Units and Tasks	Maneuver Area Requirements	Annual Repetitions	Days per Repetition
• Perform opnl mission	8 x 8 = 64 km ²	2	2
• Defend	8 x 8 = 64 km ²	2	1
• Redeploy	8 x 8 = 64 km ²	2	1
Medical Det, Vet Svc and Medical Det, Vet Svc Small (ARTEP 8-413-30-MTP—projected)			
• Deploy	4 x 4 = 16 km ²	2	1
• Relocate	4 x 4 = 16 km ²	2	1
• Establish	4 x 4 = 16 km ²	2	1
• Perform opnl mission	4 x 4 = 16 km ²	2	2
• Defend	4 x 4 = 16 km ²	2	1
• Redeploy	4 x 4 = 16 km ²	2	1
Food Procurement Det (ARTEP 8-413(MRI)-30—projected)			
• Deploy	4 x 4 = 16 km ²	2	1
• Relocate	4 x 4 = 16 km ²	2	1
• Establish	4 x 4 = 16 km ²	2	1
• Perform opnl mission	4 x 4 = 16 km ²	2	2
• Defend	4 x 4 = 16 km ²	2	1
• Redeploy	4 x 4 = 16 km ²	2	1
Hqs, Med Bn (Vet Spt) (ARTEP 8-416(MRI)—projected)			
• Deploy	4 x 4 = 16 km ²	2	1
• Relocate	4 x 4 = 16 km ²	2	1
• Establish	4 x 4 = 16 km ²	2	1
• Perform opnl mission	4 x 4 = 16 km ²	2	2
• Defend	4 x 4 = 16 km ²	2	1
• Redeploy	4 x 4 = 16 km ²	2	1
Animal Surgical Det (ARTEP 8-418 MRI-30—projected)			
• Deploy	4 x 4 = 16 km ²	2	1
• Relocate	4 x 4 = 16 km ²	2	1
• Establish	4 x 4 = 16 km ²	2	1
• Perform opnl mission	4 x 4 = 16 km ²	2	2
• Defend	4 x 4 = 16 km ²	2	1

Table A-3. Maneuver/training area Requirements for Selected Units at Echelons above Division			
Units and Tasks	Maneuver Area Requirements	Annual Repetitions	Days per Repetition
• Redeploy	4 x 4 = 16 km ²	2	1
Veterinary Surveillance Det (ARTEP 8-419(MRI)-30-MTP—projected)			
• Deploy	4 x 4 = 16 km ²	2	1
• Relocate	4 x 4 = 16 km ²	2	1
• Establish	4 x 4 = 16 km ²	2	1
• Perform opnl mission	4 x 4 = 16 km ²	2	2
• Defend	4 x 4 = 16 km ²	2	1
• Redeploy	4 x 4 = 16 km ²	2	1
Hqs, Med Bde (Corps/COMMZ) (ARTEP 8-422-MTP)			
• Deploy	6 x 20 = 120 km ²	2	1
• Relocate	6 x 20 = 120 km ²	2	1
• Establish	6 x 20 = 120 km ²	2	1
• Perform opnl mission	6 x 20 = 120 km ²	2	2
• Defend	6 x 20 = 120 km ²	2	1
• Redeploy	6 x 20 = 120 km ²	2	1
Hqs, Med Bde (Corps/EAC) (ARTEP 8-422(MRI))			
• Deploy	6 x 20 = 120 km ²	2	1
• Relocate	6 x 20 = 120 km ²	2	1
• Establish	6 x 20 = 120 km ²	2	1
• Perform opnl mission	6 x 20 = 120 km ²	2	2
• Defend	6 x 20 = 120 km ²	2	1
• Redeploy	6 x 20 = 120 km ²	2	1
Hqs Co, Med Cmd, Med Bde (Corps/COMMZ) & Hqs Det, Med Group (ARTEP 8-422-30-MTP)			
• Deploy	8 x 8 = 64 km ²	2	1
• Relocate	8 x 8 = 64 km ²	2	1
• Establish	8 x 8 = 64 km ²	2	1
• Perform opnl mission	8 x 8 = 64 km ²	2	2
• Defend	8 x 8 = 64 km ²	2	1
• Redeploy	8 x 8 = 64 km ²	2	1

Table A-3. Maneuver/training area Requirements for Selected Units at Echelons above Division			
Units and Tasks	Maneuver Area Requirements	Annual Repetitions	Days per Repetition
Med Det, Vet Medicine (ARTEP 8-423-30-MTP)			
• Deploy	4 x 4 = 16 km ²	2	1
• Relocate	4 x 4 = 16 km ²	2	1
• Establish	4 x 4 = 16 km ²	2	1
• Perform opnl mission	4 x 4 = 16 km ²	2	2
• Defend	4 x 4 = 16 km ²	2	1
• Redeploy	4 x 4 = 16 km ²	2	1
Med Det, Preventive Med (ARTEP 8-429(MRI)-30-MTP)			
• Deploy	4 x 4 = 16 km ²	2	1
• Relocate	4 x 4 = 16 km ²	2	1
• Establish	4 x 4 = 16 km ²	2	1
• Perform opnl mission	4 x 4 = 16 km ²	2	2
• Defend	4 x 4 = 16 km ²	2	1
• Redeploy	4 x 4 = 16 km ²	2	1
Hqs, Med Group (ARTEP 8-432-MTP)			
• Deploy	6 x 20 = 120 km ²	2	1
• Relocate	6 x 20 = 120 km ²	2	1
• Establish	6 x 20 = 120 km ²	2	1
• Perform opnl mission	6 x 20 = 120 km ²	2	1
• Defend	6 x 20 = 120 km ²	2	1
• Redeploy	6 x 20 = 120 km ²	2	1
Hqs & Hqs Det Med Evac Bn (ARTEP 8-446/446-30-MTP)			
• Deploy	8 x 8 = 64 km ²	2	1
• Relocate	8 x 8 = 64 km ²	2	1
• Establish	8 x 8 = 64 km ²	2	1
• Perform opnl mission	8 x 8 = 64 km ²	2	2
• Defend	8 x 8 = 64 km ²	2	1
• Redeploy	8 x 8 = 64 km ²	2	1

Table A-3. Maneuver/training area Requirements for Selected Units at Echelons above Division			
Units and Tasks	Maneuver Area Requirements	Annual Repetitions	Days per Repetition
Hqs & Support Co, Med Bn (Area Support) (ARTEP 8-456(MRI)-30-MTP)			
• Deploy	8 x 8 = 64 km ²	2	1
• Relocate	8 x 8 = 64 km ²	2	1
• Establish	8 x 8 = 64 km ²	2	1
• Perform opnl mission	8 x 8 = 64 km ²	2	2
• Defend	8 x 8 = 64 km ²	2	1
• Redeploy	8 x 8 = 64 km ²	2	1
Area Support Med Co (ARTEP 8-457(MRI)-30-MTP)			
• Deploy	8 x 8 = 64 km ²	2	1
• Relocate	8 x 8 = 64 km ²	2	1
• Establish	8 x 8 = 64 km ²	2	1
• Perform opnl mission	8 x 8 = 64 km ²	2	2
• Defend	8 x 8 = 64 km ²	2	1
• Redeploy	8 x 8 = 64 km ²	2	1
Medical Co, (Holding) (ARTEP 8-458-30-MTP)			
• Deploy	4 x 4 = 16 km ²	2	1
• Relocate	4 x 4 = 16 km ²	2	1
• Establish	4 x 4 = 16 km ²	2	1
• Perform opnl mission	4 x 4 = 16 km ²	2	2
• Defend	4 x 4 = 16 km ²	2	1
• Redeploy	4 x 4 = 16 km ²	2	1
Med Co/Det, Combat Stress Control (ARTEP 8-463/MRI-30-MTP)			
• Deploy	8 x 8 = 64 km ²	2	1
• Relocate	8 x 8 = 64 km ²	2	1
• Establish	8 x 8 = 64 km ²	2	1
• Perform opnl mission	8 x 8 = 64 km ²	2	2
• Defend	8 x 8 = 64 km ²	2	1
• Redeploy	8 x 8 = 64 km ²	2	1

Table A-3. Maneuver/training area Requirements for Selected Units at Echelons above Division			
<i>Units and Tasks</i>	<i>Maneuver Area Requirements</i>	<i>Annual Repetitions</i>	<i>Days per Repetition</i>
Dental Co (Area Support) (ARTEP 8-473(MRI)-30—projected)			
• Deploy	4 x 4 = 16 km ²	2	1
• Relocate	4 x 4 = 16 km ²	2	1
• Establish	4 x 4 = 16 km ²	2	1
• Perform opnl mission	4 x 4 = 16 km ²	2	2
• Defend	4 x 4 = 16 km ²	2	1
• Redeploy	4 x 4 = 16 km ²	2	1
Hqs & Hqs Det, Med Bn, (Dental Svcs) (ARTEP 8-476-30-MTP)			
• Deploy	4 x 4 = 16 km ²	2	1
• Relocate	4 x 4 = 16 km ²	2	1
• Establish	4 x 4 = 16 km ²	2	1
• Perform opnl mission	4 x 4 = 16 km ²	2	2
• Defend	4 x 4 = 16 km ²	2	1
• Redeploy	4 x 4 = 16 km ²	2	1
Med Co/Det (Dental Svcs) (ARTEP 8-478-30-MTP)			
• Deploy	4 x 4 = 16 km ²	2	1
• Relocate	4 x 4 = 16 km ²	2	1
• Establish	4 x 4 = 16 km ²	2	1
• Perform opnl mission	4 x 4 = 16 km ²	2	2
• Defend	4 x 4 = 16 km ²	2	1
• Redeploy	4 x 4 = 16 km ²	2	1
Hqs, Med Bn, Logistics (Forward/Rear) (ARTEP 8-485-MTP)			
• Deploy	8 x 8 = 64 km ²	2	1
• Relocate	8 x 8 = 64 km ²	2	1
• Establish	8 x 8 = 64 km ²	2	1
• Perform opnl mission	8 x 8 = 64 km ²	2	2
• Defend	8 x 8 = 64 km ²	2	1
• Redeploy	8 x 8 = 64 km ²	2	1

Table A-3. Maneuver/training area Requirements for Selected Units at Echelons above Division			
Units and Tasks	Maneuver Area Requirements	Annual Repetitions	Days per Repetition
Logistics Spt Co/Det & Distribution Co (Forward/Rear) (ARTEP 8-487-30-MTP)			
• Deploy	8 x 8 = 64 km ²	2	1
• Relocate	8 x 8 = 64 km ²	2	1
• Establish	8 x 8 = 64 km ²	2	1
• Perform opnl mission	8 x 8 = 64 km ²	2	2
• Defend	8 x 8 = 64 km ²	2	1
• Redeploy	8 x 8 = 64 km ²	2	1
Med Logistics Co, Logistics Spt Co & Blood Spt Det (ARTEP 8-488(MRI)-30-MTP)			
• Deploy	8 x 8 = 64 km ²	2	1
• Relocate	8 x 8 = 64 km ²	2	1
• Establish	8 x 8 = 64 km ²	2	1
• Perform opnl mission	8 x 8 = 64 km ²	2	2
• Defend	8 x 8 = 64 km ²	2	1
• Redeploy	8 x 8 = 64 km ²	2	1
Hqs, Med Logistics Bn (ARTEP 8-496(MRI)-30-MTP)			
• Deploy	8 x 8 = 64 km ²	2	1
• Relocate	8 x 8 = 64 km ²	2	1
• Establish	8 x 8 = 64 km ²	2	1
• Perform opnl mission	8 x 8 = 64 km ²	2	2
• Defend	8 x 8 = 64 km ²	2	1
• Redeploy	8 x 8 = 64 km ²	2	1
Med Det, Prevetitive Med (Ent/San) (ARTEP 8-498-30-MTP)			
• Deploy	4 x 4 = 16 km ²	2	1
• Relocate	4 x 4 = 16 km ²	2	1
• Establish	4 x 4 = 16 km ²	2	1
• Perform opnl mission	4 x 4 = 16 km ²	2	2
• Defend	4 x 4 = 16 km ²	2	1
• Redeploy	4 x 4 = 16 km ²	2	1

Table A-3. Maneuver/training area Requirements for Selected Units at Echelons above Division			
Units and Tasks	Maneuver Area Requirements	Annual Repetitions	Days per Repetition
Hqs, Med Cmd (Theater) (ARTEP 8-61(MRI)-MTP—projected)			
• Deploy	6 x 20 = 120 km ²	2	1
• Relocate	6 x 20 = 120 km ²	2	1
• Establish	6 x 20 = 120 km ²	2	1
• Perform opnl mission	6 x 20 = 120 km ²	2	2
• Defend	6 x 20 = 120 km ²	2	1
• Redeploy	6 x 20 = 120 km ²	2	1
Area Medical Laboratory (ARTEP 8-668(MRI)-300—projected)			
• Deploy	4 x 4 = 16 km ²	2	1
• Relocate	4 x 4 = 16 km ²	2	1
• Establish	4 x 4 = 16 km ²	2	1
• Perform opnl mission	4 x 4 = 16 km ²	2	2
• Defend	4 x 4 = 16 km ²	2	1
• Redeploy	4 x 4 = 16 km ²	2	1
Medical Logistics Mgt Ctr (ARTEP 8-699(MRI))			
• Deploy	8 x 8 = 64 km ²	2	1
• Relocate	8 x 8 = 64 km ²	2	1
• Establish	8 x 8 = 64 km ²	2	1
• Perform opnl mission	8 x 8 = 64 km ²	2	2
• Defend	8 x 8 = 64 km ²	2	1
• Redeploy	8 x 8 = 64 km ²	2	1
Combat Support Hospital (ARTEP 8-705/855(MRI))			
• Deploy	10 x 12 = 120 km ²	2	1
• Relocate	10 x 12 = 120 km ²	2	1
• Establish	10 x 12 = 120 km ²	2	1
• Perform opnl mission	10 x 12 = 120 km ²	2	2
• Defend	10 x 12 = 120 km ²	2	1
• Redeploy	10 x 12 = 120 km ²	2	1

Table A-3. Maneuver/training area Requirements for Selected Units at Echelons above Division			
Units and Tasks	Maneuver Area Requirements	Annual Repetitions	Days per Repetition
Field/General Hospital (ARTEP 8-715-MTP)			
• Deploy	10 x 12 = 120 km ²	2	1
• Relocate	10 x 12 = 120 km ²	2	1
• Establish	10 x 12 = 120 km ²	2	1
• Perform opnl mission	10 x 12 = 120 km ²	2	2
• Defend	10 x 12 = 120 km ²	2	1
• Redeploy	10 x 12 = 120 km ²	2	1
Area Spt / Med Detachment (ARTEP 8-753(MRI)-30-MTP)			
• Deploy	4 x 4 = 16 km ²	2	1
• Relocate	4 x 4 = 16 km ²	2	1
• Establish	4 x 4 = 16 km ²	2	1
• Perform opnl mission	4 x 4 = 16 km ²	2	2
• Defend	4 x 4 = 16 km ²	2	1
• Redeploy	4 x 4 = 16 km ²	2	1
Ordnance Det (EOD) (ARTEP 9-447-30-MTP)			
• Command and control of EOD teams	2 X 2 = 4km ²	4	1
QM Airdrop Equip Spt Co (ARTEP 10-337-30-MTP)			
• Conduct tactical opns	1 x 1 = 1 km ²	1	1
QM Bn (Petrl Pipeline and Terminal Operations) (ARTEP 10-416-MTP)			
• Direct bulk Petrl spt operations	1 km	1	1
HHC, Petrl Grp and HHC, QM Bn (Petrl Pipline and Terminal Operations) (ARTEP 10-416-30-MTP)			
• Conduct sustainment spt operations	1 km	1	1
QM Petrl Pipeline and Terminal Opns Company (ARTEP 10-417-30-MTP)			
• Provide bulk Petrl terminal spt	1 km	1	1

Table A-3. Maneuver/training area Requirements for Selected Units at Echelons above Division			
Units and Tasks	Maneuver Area Requirements	Annual Repetitions	Days per Repetition
Petroleum Supply Bn (ARTEP 10-426-MTP)			
• Direct CI III bulk Petrl spt operations	1 km	1	1
HHD, Petrl Supply Bn (ARTEP 10-426-30-MTP)			
• Provide sustainment to headquarters spt opns	1 km	1	1
Petroleum Supply Co (ARTEP 10-427-30-MTP)			
• Conduct CI III bulk Petrl operations	1 km	1	1
QM Co (Airdrop Sup, Light) and QM Co (Airdrop Sup, Hvy) (ARTEP 10-443-30-MTP)			
• Conduct tactical opn	1 km ²	1	1
QM Airdrop Equip Repair and Supply Co (ARTEP 10-449-30-MTP)			
• Conduct tactical opns	1 km ²	1	1
Hq, QM Bn (Water) (ARTEP 10-466-MTP)			
• Direct water spt opn	1 x 2 = 2 km ²	1	1
Hq Det, QM Bn (Water Supply) (ARTEP 10-466-30-MTP)			
Provide Sustainment Support to Bn Hqs	10 x 10 km = 100 km ²	1	1
QM Co (Water Supply)(DS/GS); Tactical Water Distribution Tm (Hoseline) and Water Purification Tm (Barge-Mount ROWPU) (ARTEP 10-468-30-MTP)			
• Conduct water supply, purification, and distribution opns, QM water purification	10 x 10 = 100 km ²	1	1
Det (GS) and QM Water Purification Tm (12,000 GPH) (ARTEP10-469-30-MTP)			
• Conduct water purificaton opn	1 x 1 = 1 km ²	1	1

Table A-3. Maneuver/training area Requirements for Selected Units at Echelons above Division			
Units and Tasks	Maneuver Area Requirements	Annual Repetitions	Days per Repetition
QM Collection Co (ARTEP 10-498-30-MTP)			
• Conduct mortuary affairs operations	1 km	1	1
Hq Co, Petrl Group (ARTEP 10-602-MTP)			
• Manage bulk petrl and water spt operations	$1 \times 1 = 1 \text{ km}^2$	1	1
QM MA Co (EAC) (ARTEP 10-698-30-MTP)			
• Conduct mortuary affairs operations	1 km	1	1
Corps Area Signal Battalion (ARTEP 11-435-MTP) (ARTEP 11-437-30-MTP)			
• Signal/tactical operations	$30 \times 30 = 900 \text{ km}^2$	4	5
Corps Signal Support Battalion (ARTEP 11-445-MTP) (ARTEP 11-447-30-MTP)			
• Signal/tactical operations	$30 \times 30 = 900 \text{ km}^2$	4	5
Armored Cavalry Squadron, ACR (ARTEP 17-385-MTP)			
• Reconnaissance operations	$20 \times 30 = 600 \text{ km}^2$	2	1
• Screening operations	$20 \times 30 = 600 \text{ km}^2$	2	1
HHT, Armored Cavalry Squadron, ACR (ARTEP 17-487-30-MTP)			
• Tactical operations	$2 \times 2 = 4 \text{ km}^2$	2	1
Armored Cavalry Troop, ACR (ARTEP 17-487-30-MTP)			
• Reconnaissance operations	$12 \times 30 = 360 \text{ km}^2$	3	1
• Screening operations	$12 \times 30 = 360 \text{ km}^2$	3	1
Combat Support MP Plt (ARTEP 19-313-10-MTP)			
• Area security	$12 \times 12 = 144 \text{ km}^2$	2	1
• Maneuver and mobility support	$12 \times 12 = 144 \text{ km}^2$	2	1
• Internment/re-settlement	$12 \times 12 = 144 \text{ km}^2$	2	1
• Law and order	$12 \times 12 = 144 \text{ km}^2$	2	1
• Police intelligence	$12 \times 12 = 144 \text{ km}^2$	2	1

Table A-3. Maneuver/training area Requirements for Selected Units at Echelons above Division			
Units and Tasks	Maneuver Area Requirements	Annual Repetitions	Days per Repetition
Combat Support MP Co (ARTEP 19-313-30-MTP)			
• Area security	30 x 50 = 1500 km ²	2	1
• Maneuver and mobility support	30 x 50 = 1500 km ²	2	1
• Internment/re-settlement	30 x 50 = 1500 km ²	2	1
• Law and order	30 x 50 = 1500 km ²	2	1
• Police intelligence	30 x 50 = 1500 km ²	2	1
S&T Troop, ACR (ARTEP 42-26-MTP)			
• Tactical operations	3 x 10 = 30 km ²	4	1
HHC Special Forces Group (ARTEP 31-805-MTP)			
• Tactical operations	5 x 5 = 25 km ²	2	1
Special Forces Battalion (ARTEP 31-807-MTP)			
• Establish battalion trains	10 x 10 = 100 km ²	2	1
• Tactical operations	10 x 10 = 100 km ²	2	1
Special Forces Company (ARTEP 31-805- MTP)			
• Infiltrate an area of operations	15 x 20 = 300km ²	4	2
• Raid	8 x 10 = 80 km ²	4	2
• Ambush	6 x 8 = 48 km ²	3	1
• Linkup operations	8 x 10 = 80 km ²	2	2
Special Forces Detachment (ARTEP 31-807-30-MTP)			
• Infiltrate an area of operations	8 x 20 = 160 km ²	4	2
• Raid	6 x 8 = 48 km ²	4	2
• Ambush	5 x 6 = 30 km ²	3	1
• Linkup operations	6 x 10 = 60 km ²	2	2
Support Company, SF Group (ARTEP 31-805-MTP)			
• Tactical operations	10 x 10 = 100 km ²	4	2
PSYOP Battalion (ARTEP 33-725-60-MTP)			
• Tactical operations	12 x 12 = 144 km ²	4	2

Table A-3. Maneuver/training area Requirements for Selected Units at Echelons above Division			
<i>Units and Tasks</i>	<i>Maneuver Area Requirements</i>	<i>Annual Repetitions</i>	<i>Days per Repetition</i>
Collection and Jamming Platoon, ACR (ARTEP 34-114-30-MTP)			
• Provide SIGINT and EW support	5 x 10 = 50 km ²	4	1
Collection and Jamming Company (Corps) (ARTEP 34-114-30-MTP) (ARTEP 34-117-30-MTP) (ARTEP 34-143-30-MTP) (ARTEP 34-144-30-MTP) (ARTEP 34-355-30-MTP) (ARTEP 34-357-30-MTP) (ARTEP 34-358-30-MTP) (ARTEP 34-387-30-MTP) (ARTEP 34-388-30-MTP) (ARTEP 34-393-30-MTP) (ARTEP 34-396-30-MTP) (ARTEP 34-397-30-MTP) (ARTEP 34-398-30-MTP) (ARTEP 34-399-10-MTP) (ARTEP 34-414-30-MTP)			
• Provide SIGINT and EW support	4 x 15 = 60 km ²	4	1
MI Company, ACR (ARTEP 34-114-30-MTP)			
• Provide intelligence support	4 x 15 = 60 km ²	4	3
EW Platoon, ACR (ARTEP 34-114-30-MTP)			
• Provide SIGINT and EW support	5 x 10 = 50 km ²	4	1
Civil Affairs Battalion (ARTEP 41-701-60-MTP)			
• Tactical operations	15 x 15 = 225 km ²	4	2
Supply and Transport Co, Spt Bn, Hvy Sep Bde or Sep Inf Bde or Thtr Defensive Bde and Supply and Transport Trp, Spt Sqdn, ACR (ARTEP 42-077-30-MTP)			
• Provide DS ground maint, transport, CI V and IX repair parts	1 km ²	1	1
QM Field Service Co (DS), Corps Spt Bn or Supply and Service Bn (ARTEP 10-414-30-MTP)			
• Provide field services	1 km ²	1	1
QM Field Service Co (DS) (ARTEP 10-414-30-MTP)			
• Conduct field svc opn	1 km ²	1	1
Supply Co (GS), Supply and Service Bn (ARTEP 42-418-30-MTP)			
• Provide GS supplies	1 km ²	1	1
QM Repair Parts Supply Co (GS), Supply and Service Bn (ARTEP 42-419-30-MTP)			
• Provide GS repair parts	1 km ²	1	1

Table A-3. Maneuver/training area Requirements for Selected Units at Echelons above Division			
Units and Tasks	Maneuver Area Requirements	Annual Repetitions	Days per Repetition
QM Force Provider Co (ARTEP 42-424-30-MTP)			
• Conduct force provider operations	1 km	2	1
Hvy Materials Supply Co (ARTEP 42-427-30-MTP)			
• Provide GS CI VII supplies	1 km ²	1	1
Bn Hq, Supply and Service Bn (ARTEP 42-446-MTP)			
• Provide supply and service support	3 x 2 = 6 km ²	1	1
Hq Det Supply and Service Bn (ARTEP 42-446-30-MTP)			
• Spt the HH detachment	1 km ²	1	1
Maintenance Troop, ACR (ARTEP 43-007-30-MTP)			
• Tactical operations	3 x 10 = 30 km ²	4	1
Maintenance Company (Non-divisional) (ARTEP 43-209-30-MTP)			
• Tactical operations	4 x 4 = 16 km ²	4	1
Maintenance Company (ARTEP 43-209-30-MTP)			
• DS maint and repair parts supply	2 x 2 = 4km ²	4	1
Bn Hq, Ordnance Bn (ARTEP 43-436-MTP)			
• Provide command and control	2 x 2 = 4km ²	4	1
Maintenance Service Co (ARTEP 43-439-30-MTP)			
• Collection and classification	2 x 2 = 4km ²	4	1
Maintenance Co (ARTEP 43-607-30-MTP)			
• DS maint and repair parts supply	2 x 2 = 4km ²	4	1
Maintenance Co (ARTEP 43-648-30-MTP)			
• Provide GS CE maint	2 x 2 = 4km ²	4	1

Table A-3. Maneuver/training area Requirements for Selected Units at Echelons above Division			
Units and Tasks	Maneuver Area Requirements	Annual Repetitions	Days per Repetition
Maintenance Co (ARTEP 43-649-30-MTP)			
• Provide GS maint	2 x 2 = 4km ²	4	1
STINGER Plt/STINGER Plt (Light and Special) (ARTEP 44-117-11-MTP)			
• AD of static asset	5 x 5 = 25 km ²	4	2
• AD of mobile asset	5 x 5 = 25 km ²	4	2
• AD for movement to contact	5 x 5 = 25 km ²	4	2
• AD for breaching opns	5 x 5 = 25 km ²	4	2
Avenger Platoon (ARTEP 44-117-22-MTP)			
• AD of static asset	5 x 5 = 25 km ²	4	2
• AD of mobile asset	5 x 5 = 25 km ²	4	2
• AD of task force	5 x 5 = 25 km ²	4	2
Sentinel Sensor Plt/ADA Sensor Plt C4I (Light) (ARTEP 44-176-15-MTP)			
• EW in offensive opns	5 x 10 = 50 km ²	4	1
• EW in defensive opns	5 x 5 = 25 km ²	4	1
• EW in movement to contact	8 x 31 = 248 km ²	4	1
ADA Btry Light, Abn, Air Asslt, and Hvy Divisions and Corps/ADA Btry BSFV/ADA Btry Gun or STINGER/Avenger Btry (ARTEP 44-177-35-MTP) (ARTEP 44-177-30-MTP)			
• AD for div assets	6 x 20 = 120 km ²	2	3
ADA Battalion (Avenger) (ARTEP 44-435-MTP)			
• Conduct AD opns (Offense)	10 x 10 = 100 km ²	2	3
• Conduct Ad opns (Defense)	10 x 10 = 100 km ²	2	3
ADA Battalion (Patriot) (ARTEP 44-635-MTP)			
• AD of critical asset	30 x 60 = 1800 km ²	3	1
ADA Battery (Patriot) (ARTEP 44-637-30-MTP)			
• AD of critical asset	10 x 30 = 300 km ²	3	1

Table A-3. Maneuver/training area Requirements for Selected Units at Echelons above Division			
Units and Tasks	Maneuver Area Requirements	Annual Repetitions	Days per Repetition
HHC, Transportation Composite Group (ARTEP 55-62-MTP)			
• Deploy/conduct maneuver	2 x 2 = 4 km ²	2	1
• Exercise cmd/control	2 x 2 = 4 km ²	2	1
• Perform CSS	2 x 2 = 4 km ²	2	2
• Protect the force	2 x 2 = 4 km ²	2	1
Transportation Mvmt Control Bn and Teams (ARTEP 55-406-MTP)			
• Deploy/conduct maneuver	2 x 2 = 4 km ²	2	1
• Exercise cmd/control	2 x 2 = 4 km ²	2	1
• Perform CSS	2 x 2 = 4 km ²	2	2
• Protect the force	2 x 2 = 4 km ²	2	1
• Deploy/conduct maneuver	2 x 2 = 4 km ²	2	1
Transportation Mvmt Control Bn Hq Det (ARTEP 55-406-30-MTP)			
• Deploy/conduct maneuver	2 x 2 = 4 km ²	2	1
• Exercise cmd and control	2 x 2 = 4 km ²	2	1
• Perform CSS	2 x 2 = 4 km ²	2	2
• Protect the force	2 x 2 = 4 km ²	2	1
Transportation Watercraft Unit (ARTEP 55-828-30-MTP) (ARTEP 55-848-30-MTP) (ARTEP 55-887-30-MTP)			
• Deploy/conduct maneuver	2 x 2 = 4 km ²	2	1
• Exercise cmd and ontrol	2 x 2 = 4 km ²	2	1
• Perform CSS	2 x 2 = 4 km ²	2	2
• Protect the force	2 x 2 = 4 km ²	2	1
Transportation POCD and Augmentation Teams (ARTEP 55-560-30-MTP)			
• Deploy/conduct maneuver	2 x 2 = 4 km ²	2	1
• Exercise cmd/control	2 x 2 = 4 km ²	2	1
• Perform CSS	2 x 2 = 4 km ²	2	2
• Protect the Force	2 x 2 = 4 km ²	2	1

Table A-3. Maneuver/training area Requirements for Selected Units at Echelons above Division			
Units and Tasks	Maneuver Area Requirements	Annual Repetitions	Days per Repetition
Hq, Transportation Cmd (ARTEP 55-601-MTP)			
• Deploy/conduct maneuver	2 x 2 = 4 km ²	2	1
• Exercise cmd/control	2 x 2 = 4 km ²	2	1
• Perform CSS	2 x 2 = 4 km ²	2	2
• Protect the force	2 x 2 = 4 km ²	2	1
Theater Army Movement Control Agency (ARTEP 55-603-MTP)			
• Deploy/conduct maneuver	2 x 2 = 4 km ²	2	1
• Exercise cmd/control	2 x 2 = 4 km ²	2	1
• Perform CSS	2 x 2 = 4 km ²	2	2
• Protect the force	2 x 2 = 4 km ²	2	1
Transportation Watercraft Maint (DS/GS) (ARTEP 55-613-30-MTP)			
• Deploy/conduct maneuver	2 x 2 = 4 km ²	2	1
• Exercise cmd and control	2 x 2 = 4 km ²	2	1
• Perform CSS	2 x 2 = 4 km ²	2	2
• Protect the force	2 x 2 = 4 km ²	2	1
Transportation Motor Transport Bn (ARTEP 55-716-MTP)			
• Deploy/conduct maneuver	2 x 2 = 4 km ²	2	1
• Exercise cmd/control	2 x 2 = 4 km ²	2	1
• Perform CSS	2 x 2 = 4 km ²	2	2
• Protect the force	2 x 2 = 4 km ²	2	1
Hq Det Transportation Motor Transport Bn and Transportation Railway, and Hq Co, Transportation Terminal Bn (ARTEP 55-716-30-MTP)			
• Deploy/conduct maneuver	2 x 2 = 4 km ²	2	1
• Exercise cmd and control	2 x 2 = 4 km ²	2	1
• Perform CSS	2 x 2 = 4 km ²	2	2
• Protect the force	2 x 2 = 4 km ²	2	1
Transportation Co, Light/Medium/Heavy Truck Company (ARTEP 55-718-30-MTP)			
• Deploy/conduct maneuver	2 x 10 = 20 km ²	2	1
• Exercise cmd and control	2 x 10 = 20 km ²	2	1

Table A-3. Maneuver/training area Requirements for Selected Units at Echelons above Division			
Units and Tasks	Maneuver Area Requirements	Annual Repetitions	Days per Repetition
• Perform CSS	2 x 10 = 20 km ²	2	2
• Protect the force	2 x 10 = 20 km ²	2	1
Combat Heavy Transport Company (ARTEP 55-739-30-MTP)			
• Deploy/conduct maneuver	2 x 10 = 20 km ²	2	1
• Exercise cmd and control	2 x 10 = 20 km ²	2	1
• Perform CSS	2 x 10 = 20 km ²	2	2
• Protect the force	2 x 10 = 20 km ²	2	1
Transportation Terminal Bn (ARTEP 55-816-MTP)			
• Deploy/conduct maneuver	2 x 2 = 4 km ²	2	1
• Exercise cmd/control	2 x 2 = 4 km ²	2	1
• Perform CSS	2 x 2 = 4 km ²	2	2
• Protect the force	2 x 2 = 4 km ²	2	1
Transportation Cargo Transport Company (ARTEP 55-819-30-MTP)			
• Deploy/conduct maneuver	2 x 2 = 4 km ²	2	1
• Exercise cmd and control	2 x 2 = 4 km ²	2	1
• Perform CSS	2 x 2 = 4 km ²	2	2
• Protect the force	2 x 2 = 4 km ²	2	1
Transportation Railway Bn (ARTEP 55-916-MTP)			
• Deploy/conduct maneuver	2 x 2 = 4 km ²	2	1
• Exercise cmd and control	2 x 2 = 4 km ²	2	1
• Perform CSS	2 x 2 = 4 km ²	2	2
• Protect the force	2 x 2 = 4 km ²	2	1
Transportation Railway Engineering Company (RTEP 55-917-30-MTP)			
• Deploy/conduct maneuver	5 x 5 = 25 km ²	2	1
• Exercise cmd and control	5 x 5 = 25 km ²	2	1
• Perform CSS	5 x 5 = 25 km ²	2	2
• Protect the force	5 x 5 = 25 km ²	2	1

Table A-3. Maneuver/training area Requirements for Selected Units at Echelons above Division			
Units and Tasks	Maneuver Area Requirements	Annual Repetitions	Days per Repetition
Transportation Railway Equip Maint Company (ARTEP 55-917-30-MTP)			
• Deploy/conduct maneuver	2 x 2 = 4 km ²	2	1
• Exercise cmd and control	2 x 2 = 4 km ²	2	1
• Perform CSS	2 x 2 = 4 km ²	2	2
• Protect the force	2 x 2 = 4 km ²	2	1
Transportation Train Operating Company (ARTEP 55-917-30-MTP)			
• Deploy/conduct maneuver	5 x 5 = 25 km ²	2	1
• Exercise cmd and control	5 x 5 = 25 km ²	2	1
• Perform CSS	5 x 5 = 25 km ²	2	2
• Protect the force	5 x 5 = 25 km ²	2	1
Support Squadron, ACR (ARTEP 63-065-MTP)			
• Tactical operations	6 x 20 = 120 km ²	4	1
HHC Corps Support Group (ARTEP 63-422-30-MTP)			
• Tactical operations	6 x 20 = 120 km ²	2	1
HHC Corps Support Bn			
• Tactical opns	6 x 20 = 120 km ²	2	1

Table A-3. Maneuver/training area Requirements for Selected Units at Echelons above Division			
<i>Units and Tasks</i>	<i>Maneuver Area Requirements</i>	<i>Annual Repetitions</i>	<i>Days per Repetition</i>
<p>Notes for Table A-3, Maneuver/training area requirements for selected units at echelons above division.</p> <ol style="list-style-type: none"> 1. Aviation Unit deliberate attack requirements include attacks in the close and deep fight, but not the hasty attack. Maneuver area dimensions are for a battalion mission, enroute distance will vary depending on METT-TC. While the Army may not own the land under the air routes, certain factors must be considered in selecting routes. Examples are airspace, noise complaints, populated areas, bright lights and other hazards. 2. Air assault operational maneuver area is based on light infantry offensive operations, but does not include landing zones and pick-up zones. 3. Artillery units accomplish other ARTEP missions and MTP tasks concurrently with Deliver Fires, Move and Survive and within the same maneuver areas. 4. Artillery unit "Survive" missions vary by type and size of unit, in these tables they are all assumed to be 1 km x 4 km =4 km², once per year, one day in length. 5. When artillery units use munitions not approved for overhead firing, the maneuver space in the "Deliver Fires" block apply. With munitions approved for overhead firing, the maneuver space in the "Move" block applies, plus an impact area of 6 x 8 km. 6. The Ranger and Special Forces units do not physically occupy these large maneuver/training areas, the footprints of individual teams are very small. This is a good example of the requirement for and use of "non-contiguous" maneuver area.5. Transportation Railway and Train Units must have access to railheads and sidings. These areas should have a minimum of 25 km of track plus sidings, signal stations and train movement control facilities. 8. Transportation Watercraft companies require a minimum of 500 meters of beach if conducting logistics-over-the-shore operations/training is needed per watercraft company. 9. The Military Police Company and Platoon execute their security and law and order missions over a large non-contiguous maneuver area, while their mounted and dismounted footprints are very small. 			

A-7. The SBCT will typically operate within an Area of Operations (AO) of 50 km x 50 km, or 2500 km² (approximately greater San Diego) as a motorized force designed for fast-paced, distributed operations. When augmented for large-scale operations, the SBCT AO could expand to 100 km x 100 km, or 1000 km² (approximately Rhode Island and Delaware). The SBCT Infantry Battalions could operate in non-contiguous areas of 100 km² to 225 km². Since SBCT MTPs and CATS are under development, Table A-4 includes some estimates based on Heavy Division requirements.

Table A-4. Maneuver/training Area Requirements for the Stryker Brigade Combat Team (SBCT)			
<i>Units and Tasks</i>	<i>Maneuver Area Requirements</i>	<i>Annual Repetitions</i>	<i>Days per Repetition</i>
SBCT Infantry Bn ARTEP 7-22- MTP			
Intelligence, Surveillance & Reconnaissance (ISR)	Integral to all other missions. No separate space required.		
Offense	13 x 16 = 208 km ²	4	1
Defense	14 x 20 = 280 km ²	4	1
Stability	8 x 8 = 64 km ²	4	1
Support	8 x 8 = 64 km ²	4	1
SBCT Infantry Co ARTEP 7-12 MTP			
Intelligence, Surveillance & Reconnaissance (ISR)	Integral to all other missions. No separate space required.		
Offense	5 x 10 = 50 km ²	3	1
Defense	6 x 17 = 102 km ²	3	2
Stability	6 x 17 = 102 km ²	3	1
Support	6 x 17 = 102 km ²	3	1
SBCT Inf Rifle Plt/Sqd ARTEP 7-5- MTP			
Intelligence, Surveillance & Reconnaissance (ISR)	Integral to all other missions. No separate space required.		
Offense	4 x 6 km = 24 km ²	4	2
Defense	3 x 10 = 30 km ²	4	2
Stability	3 x 6 = 18 km ²	4	2
Support	3 x 6 = 18 km ²	4	2
SBCT Mortar Plt (ARTEP to be published)			
Intelligence, Surveillance & Reconnaissance (ISR)	Integral to all other missions. No separate space required.		
Offense	4 x 15 = 60 km ²	2	1
Defense	3 x 10 = 30 km ²	2	1

Table A-4. Maneuver/training Area Requirements for the Stryker Brigade Combat Team (SBCT)			
Units and Tasks	Maneuver Area Requirements	Annual Repetitions	Days per Repetition
Stability	3 x 6 = km ²	2	1
Support	3 x 6 = km ²	2	1
SBCT Anti-Armor Co/Plt/Sec ARTEP 7-XX-MTP			
Intelligence, Surveillance & Reconnaissance (ISR)	Integral to all other missions. No separate space required.		
Offense	4 x 15 = 60 km ²	3	1
Defense	4 x 15 = 60 km ²	3	1
Stability	4 x 15 = 60 km ²	3	1
Support	4 x 15 = 60 km ²	3	1
SBCT Recon Plt & Sqd ARTEP 7-4- MTP			
Intelligence, Surveillance & Reconnaissance (ISR) Security	5 x 27 = 135 km ²	4	1
Offense	5 x 27 = 135 km ²	4	1
Defense	5 x 27 = 135 km ²	4	1
Stability	5 x 27 = 135 km ²	4	1
Support	5 x 27 = 135 km ²	4	1
SBCT Long Range Surveillance Det. ARTEP 7-XX MTP			
Intelligence, Surveillance & Reconnaissance (ISR)	5 x 27 = 135 km ²	4	1
Offense	5 x 27 = 135 km ²	4	1
Defense	5 x 27 = 135 km ²	4	1
Stability	5 x 27 = 135 km ²	4	1
Support	5 x 27 = 135 km ²	4	1
Brigade Support Medical Co (ARTEP 8-108F-30-MTP)			
Deploy	8 x 8 = 64 km ²	2	1
Relocate	8 x 8 = 64 km ²	2	1
Establish	8 x 8 = 64 km ²	2	1
Perform Opnl Msn	8 x 8 = 64 km ²	2	2
Defend	8 x 8 = 64 km ²	2	1
Redeploy	8 x 8 = 64 km ²	2	1
1. The SBCT Chemical Recon Platoon will train as a part of the RSTA squadron and require no additional area.			

Appendix B

Institutional Maneuver/Training Area Requirements

The Institutional Army (Schools and Training Centers) is the foundation of life-long learning. It develops competent, confident, disciplined and adaptive soldiers and leaders able to succeed in situations of great uncertainty. FM 7.0, Train the Force, October 2002.

B-1. Introduction.

- a. Institutional training includes; Initial Military Training (IMT), the Officer Education System (OES), the Warrant Officer Education System (WOES), the NCO Education System (NCOES) and Functional Training. Schools use Programs of Instruction (POI) to identify the resources, including maneuver/training areas, required to execute the training to standard.
- b. The POI information collected for and published in this circular will change as new equipment, training strategies, and course design are introduced. The number of courses taught each year will vary by student load and availability of training spaces. However, the methodology is sound and can adapt to these changes. Current POI information may be available directly from the TRADOC schools and their websites.

B-2. Methodology. The following conversions and assumptions were made to school supplied data. Square kilometers equal acres divided by 247. The minimum land requirement was rounded up to 1 km². Days equal hours divided by 8, rounded up to the next half day. Events that occurred in the cantonment area (ex. motor pools, parade fields, PT areas) were not counted.

B-3. Table Headings. “Course” is the POI instruction. “Event” is the training that requires maneuver areas. “Size” is the number of square kilometers required to conduct the training. “Duration” is the number of days required to conduct the training (annual repetitions depend on school load and local conditions).

Table B-1. Institutional POI Maneuver Area Requirements			
<i>Courses</i>	<i>Events</i>	<i>Size (km)</i>	<i>Duration (Days)</i>
Soldier Support Institute, Fort Jackson			
27D10 Paralegal Specialist	FTX	12 km ²	3
42A10 Personnel Svc Specialist	FTX	12 km ²	3
42F10 Personnel Info Sys Mgmt Spec	FTX	12 km ²	3
42L10 Administrative Specialist	FTX	12 km ²	3
44C10 Finance Svc Specialist	FTX	12 km ²	3
AGOBC AG Officer Basic Course	FTX	12 km ²	8

Table B-1. Institutional POI Maneuver Area Requirements			
Courses	Events	Size (km²)	Duration (Days)
AGCCC AG Captain Career Course	FTX	12 km ²	10
FI Officer Basic Course	FTX	12 km ²	10
FI Captain Career Course	FTX	12 km ²	10
Chaplain Officers' Advanced Course	Officer Tng	3 km ²	4.0
Chaplain's Assistant BNCOB	NCO Tng	3 km ²	2.0
Air Defense Artillery School, Fort Bliss			
043-14 D10X(T) Hawk Missile System Crewmember	STX/FTX	1 km ²	34.0
043-14 D10XES Hawk Missile System Crewmember (non-US)	STX/FTX	1 km ²	39.0
043-14E10 Patriot Fire Control Operator	STX/FTX	1 km ²	64.0
043-14J10 ADA C4I TAC OPN CTR ENH OPR/Maint	Sys Integration	1 km ²	8.0
043-14M10 Man-Portable Air Defense System (MANPADS)	Operate STINGER	1 km ²	2.5
043-14R10 Bradley LINEBACKER Crewmember	Drive BSFV (Day)	1 km ²	1.0
043-14R10 Bradley LINEBACKER Crewmember	Drive BSFV (Night)	1 km ²	0.5
043-14R10 Bradley LINEBACKER Crewmember	Live Fire STX	192 km ²	5.0
043-14R10 Bradley LINEBACKER Crewmember	Aerial Gunnery/Trk	1 km ²	5.0
043-14S10 AVENGER Crewmember	STX at ADA Firing Range	3 km ²	5.0
043-14S10 AVENGER Crewmember	FTX	10 km ²	5.0
043-14T10 PATRIOT Launching Station Enhancer	STX/FTX	1 km ²	38.5
043-16S10 Manpad System Crewmember	ADA Live Fire	3 km ²	5.0
104-F21X HAWK Fire Control Mechanic (PIP III):	STX/FTX	1 km ²	4.0
121-7212(OS) STINGER Gunner/AVENGER Crewmember	ADA Live Fire	3 km ²	5.0
2-44-C20 ADA Officer Basic (CC)	Map Reading Course	10 km ²	1.0

Table B-1. Institutional POI Maneuver Area Requirements			
Courses	Events	Size (km²)	Duration (Days)
2-44-C20 ADA Officer Basic (CC)	FTX-PLT Lane Tng	40 km ²	2.5
2-44-C20 ADA Officer Basic (CC)	FTX-Lane Training	40 km ²	5.0
2-44-C20(14B) ADA Officer Basic (FAADS Weapons Track)	ADA Live Fire	1 km ²	5.0
2-44-C20(14E) ADA Officer Basic (PATRIOT Track)	STX/FTX	1 km ²	15.5
2-44-C22 ADA Officer Advanced	Bivouac	1 km ²	6.0
2-44-C23 ADA Officer Advanced-RC	Bivouac	1 km ²	6.0
2-44-C32 ADA Warrant Officer (WO) Advanced	MOS Training	3 km ²	3.0
2E-7204 (OS) Low Altitude ADA Officer	ADA Live Fire	3 km ²	3.0
2F-FOA-F15 ADA Officer Advanced (Patriot Follow-On)	STX/FTX	1 km ²	11.0
2F-14D (PIP III) HAWK Officer	STX/FTX	1 km ²	25.0
2F-14EX Patriot Air Defense Officer	STX/FTX	1 km ²	23.5
2F-14EX (ISRAEL) Patriot Operator (ICC)	STX/FTX	1 km ²	2.5
2G-F38(OS) TAC System/ADA Orientation	Orientation	1 km ²	2.0
2G-F85X International OAC Prep	Preparation	1 km ²	2.0
4F-140DX (PIP III) HAWK Sys Tech WO Basic	STX/FTX	3 km ²	16.0
4F-140E PATRIOT Sys Tech WO Basic	STX/FTX	3 km ²	575.0
632-23R10X HAWK Msl Sys Mechanic	STX/FTX	3 km ²	23.0
632-23R10X MODIFIED PATRIOT Opr & Sys Mechanic	STX/FTX	3 km ²	385.5
0-14-C40 ADA BNCOC	PMCS	16 km ²	0.5
0-14-C40 ADA BNCOC	FTX	16 km ²	10.5

Table B-1. Institutional POI Maneuver Area Requirements			
Courses	Events	Size (km²)	Duration (Days)
620-11-PLDC Primary Leadership Development	STX/FTX	2 km ²	13.0
620-11-PLDC Primary Leadership Development	Land Navigation	2 km ²	1.5
Army Medical Department Center and School (AMEDDC&S), Fort Sam Houston			
AMEDD Officer Basic Course 6-8-C20 (Med Svc Corps Track)	Combat Health Support Exercise (CHSX)	20 km ²	5.0
AMEDD Officer Basic Course 6-8-C20 (Nurse Corps Track)	FTX	2 km ²	4.0
AMEDD Officer Basic Course 6-8-C20 (HPSP-RC)	FTX	14 km ²	5.0
AMEDD Officer Basic Course 6-8-C20 (Allied Science Track 71E)	CHSX	1 km ²	2.0
AMEDD Officer Basic Course 6-8-C20 (USUHS)	FTX	14 km ²	5.0
AMEDD Officer Basic Course 6-8-C20 (RC)	FTX	14 km ²	4.0
AMEDD Officer Basic Course 6-8-C20 (All Corps)	Prep Module FTX	7 km ²	2.0
AMEDD Officer Basic Course 6-8-C20 (All Corps)	FTX	14 km ²	5.0
AMEDD Officer Basic Course 6-8-C20 (Med Svc Corps Track)	Combat Health Support Exercise (CHSX)	20 km ²	5.0
AMEDD Officer Basic Course 6-8-C20 (Nurse Corps Track)	FTX	2 km ²	4.0
AMEDD Officer Basic Course 6-8-C20 (HPSP-RC)	FTX	14 km ²	5.0
AMEDD Officer Advanced Course 6-8-C22 (All Corps)	FTX	1 km ²	3.0
Combat Casualty Care Course 6A-C4:	FTX	5 km ²	9.0
Bushmasters:	FTX	21 km ²	12.0
AMEDD NCO Basic (BNCOC) 6-8-C4 (All Corps)	FTX	20 km ²	5.0
AMEDD NCO Basic (BNCOC) 91E30	FTX	1 km ²	1.0
AMEDD NCO Basic (BNCOC) 91M30	FTX	1 km ²	1.0
AMEDD NCO Basic (BNCOC) 91W30	FTX	7 km ²	5.0
AMEDD NCO Advanced (ANCOC) 6-8-C42 (All Corps)	FTX	3 km ²	5.0

Table B-1. Institutional POI Maneuver Area Requirements			
Courses	Events	Size (km)	Duration (Days)
AMEDD NCO Advanced (ANCOC) 91M30	FTX	1 km ²	1.0
Occupational Therapy 303-N3 91W ASI	FTX	1 km ²	2.5
Joint Fld Nutrition Operations 6H-A0619		1 km ²	10.0
Joint Enlisted Nutrition Short Course 6H-300:	FTX	1 km ²	5.0
Management of Combat Stress Casualties 6H-300/A0620	FTX	1 km ²	9.5
Preventive Dentistry 330-X2 91E ASI	PE	1 km ²	0.5
Principles of Military Preventive Medicine 6A-F5	FTX	3 km ²	3.0
Health Physics Specialty Course 322-N4 91S ASI	FTX	1 km ²	2.0
MEDCOM CSM/SGM/SR NCO Short Course 340-A0715	FTX	1 km ²	1.0
AMEDDEX	FTX	2 km ²	14.0
Expert Field Medical Badge (EFMB) Train Up FTX	Training	10 km ²	10.0
EFMB Testing FTX	Testing	10 km ²	5.0
Expert Field Medical Badge Challenge (EFMC) FTX	Challenge	6 km ²	18.0
91A10 AIT	FTX	1 km ²	5.0
Operating Room Specialists 301-91D10 AIT	FTX	1 km ²	3.0
Dental Specialist 330-91E10 AIT	FTX	1 km ²	3.0
Patient Administrative Specialist 513-91G10 AIT	FTX	1 km ²	3.0
Patient Administrative Specialist 513-91G10 Reserve Comp AIT	FTX	1km ²	3.0
Optical Laboratory Specialist 42E10/91H10 AIT	FTX	1 km ²	3.0
Medical Supply Specialist 551-91J10 AIT	FTX	1 km ²	3.0
Medical Supply Specialist 551-91J10 Reserve Comp AIT	FTX	1 km ²	3.0
Medical Laboratory Specialist 311-91K10 AIT	FTX	1 km ²	3.0
Hospital Food Services Specialist 800-91M10	FTX	1 km ²	4.0
Hospital Food Services Specialist 800-91M10 Reserve Comp	FTX	1 km ²	4.0
Radiology Specialist 313-91P10 AIT	FTX	1 km ²	3.0
Pharmacy Specialist 312-91Q10 AIT	FTX	1 km ²	3.0

Table B-1. Institutional POI Maneuver Area Requirements			
Courses	Events	Size (km²)	Duration (Days)
Veterinary Food Inspection Specialist 321-91R10 AIT	FTX	3 km ²	4.0
Veterinary Food Inspection Specialist 321-91R10 Reserve Comp AIT	FTX	3 km ²	4.0
Preventive Medicine Specialist 322-91S10 AIT	FTX	3 km ²	5.0
Preventive Medicine Specialist 322-91S10 AIT	STX	3 km ²	3.0
Preventive Medicine Specialist 322-91S10 Reserve Comp AIT	FTX	3 km ²	10.0
Animal Care Specialist 321-91T10 AIT	FTX	3 km ²	10.0
Respiratory Specialist 300-91V10 AIT	FTX	1 km ²	4.0
Health Care Specialist 300-91W10 AIT	FTX	3 km ²	7.0
Mental Health Specialist 302-91X10 AIT	FTX	7 km ²	5.0
Armor School, Fort Knox			
2-17-C20 Armor Officer Basic Course	Dismounted Land Navigation & Retest	16 km ²	2.5
2-17-C20 Armor Officer Basic Course	Protect the Force	1 km ²	0.5
2-17-C20 Armor Officer Basic Course	MOUT	1 km ²	3.0
2-17-C20 Armor Officer Basic Course	Offense/Threat STX	176 km ²	1.0
2-17-C20 Armor Officer Basic Course	Mounted Land Navigation & Retest	110km ²	1.5
2E-F137/521-F2, Scout Leader Course	Evaluate Route and Obstruction TEWT	2 km ²	.5
2E-F137/521-F2, Scout Leader Course	Mounted Tactical Tng	50 km ²	7.0
2E-F137/521-F2, Scout Leader Course	Mout Site STX	25 km ²	1.0
19K10-OSUT: M1A1 Abrams Armor Crewman	INYN 0208/0308, Armor Crewman Test (ACT) I/II	1 km ²	1.0
19K10-OSUT: M1A1 Abrams Armor Crewman	INHN 0306, NBC Defense	1 km ²	1.0
19K10-OSUT: M1A1 Abrams Armor Crewman	INFN 0716, Engage Targets With An M9 Pistol (Concurrent and Non-Firing Tng)	1 km ²	2.0
19K10-OSUT: M1A1 Abrams Armor Crewman	INXN 3404, Boresight an M1A1 Tank	4 km ²	2.5

Table B-1. Institutional POI Maneuver Area Requirements			
Courses	Events	Size (km)	Duration (Days)
19K10-OSUT: M1A1 Abrams Armor Crewman	INXN 3706, Main Gun And Coax Live Fire Range (Concurrent Tng)	1 km ²	4.0
19K10-OSUT: M1A1 Abrams Armor Crewman	INCN 3004 Main Gun Firing (Concurrent Tng)	1 km ²	0.5
19K10-OSUT: M1A1 Abrams Armor Crewman	1NFN 1306/1406, Fundamentals of Rifle Marksmanship I (Concurrent Tng)	1 km ²	2.0
19K10-OSUT: M1A1 Abrams Armor Crewman	INFN 1508, Grouping Procedures (Concurrent Tng)	1 km ²	1.0
19K10-OSUT: M1A1 Abrams Armor Crewman	INFN 1608, Zero an M16A2 Rifle (Concurrent Tng)	1 km ²	1.0
19K10-OSUT: M1A1 Abrams Armor Crewman	INFN 1804/1904, Field Fire I/II (Concurrrent Tng)	1 km ²	0.5
19K10-OSUT: M1A1 Abrams Armor Crewman	INFN 2208, Record Fire (Concurrent Tng)	1 km ²	1.0
19K10-OSUT: M1A1 Abrams Armor Crewman	INFN 0108, Hand Grenades	1 km ²	1.0
19K10-OSUT: M1A1 Abrams Armor Crewman	INFN 2208, Record Fire (Concurrent Tng)	1 km ²	1.0
19K10-OSUT: M1A1 Abrams Armor Crewman	INFN 0108, Hand Grenades	1 km ²	1.0
19K10-OSUT: M1A1 Abrams Armor Crewman	INFN 0306 Confidence Obstacle Crse	1 km ²	4.0
19K10-OSUT: M1A1 Abrams Armor Crewman	INLN 0505, Individual Tactical Tng (Infiltration Crse) (IT6)	1 km ²	3.5
19K10-OSUT: M1A1 Abrams Armor Crewman	INLN 0202, Individual Tactical Tng (Camouflage, Cover And Concealment) (IT2)	1 km ²	2.0

Table B-1. Institutional POI Maneuver Area Requirements			
Courses	Events	Size (km²)	Duration (Days)
19K10-OSUT: M1A1 Abrams Armor Crewman	INLN 0306, Individual Tactical Movements (IT3 and IT5 MOD)	1 km ²	4.0
19K10-OSUT: M1A1 Abrams Armor Crewman	INLN 0404, Individual Tactical Tng (Night Offensive Tng) (IT4)	1 km ²	2.5
19K10-OSUT: M1A1 Abrams Armor Crewman	INXN 2208, Drive an M1A1 Tank	8 km ²	2.5
19K10-OSUT: M1A1 Abrams Armor Crewman	INXN 1810, Tow an M1A1 Tank	1 km ²	2.0
19K10-OSUT: M1A1 Abrams Armor Crewman	INXN 2001, Recover M1A1 Tank by Similar Vehicle	1 km ²	1.0
19K10-OSUT: M1A1 Abrams Armor Crewman	INSN 0178, Situational Tng Exercise (STX)	10 km ²	15.0
19K10-OSUT: M1A1 Abrams Armor Crewman	INCN 0602/0702/0802/09 04, Rifle Bayonet Tng (RB1 - 4)	1 km ²	5.5
19K10-OSUT: M1A1 Abrams Armor Crewman	INCN 6412, Tactical Foot Marches (FM1)	15 km ²	7.5
19K10-OSUT: M1A1 Abrams Armor Crewman	INTN 0312, Terrain Association	10 km ²	2.5
19K10-OSUT: M1A1 Abrams Armor Crewman	INTN 0312, Land Navigation	50 km ²	7.5
19K10-OSUT: M1A1 Abrams Armor Crewman	ININ 1404, Establish A Bivouac Site (MB1)	1 km ²	2.5
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	HNFA 0804/0904, Field Fire I/II (Concurrent Tng)	1 km ²	1
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	HNFA 1108/1403/1503, Record Fire/Night Fire (BR11/14) (Concurrent Tng)	1 km ²	2
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	HNXA 2007, Drive a HMMWV	5 km ²	4.5

Table B-1. Institutional POI Maneuver Area Requirements			
Courses	Events	Size (km)	Duration (Days)
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	HNXA 0808, Drive A BFV	5 km ²	3
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	HNXA 0904, Drive a BFV Using Night Vision Equipment	.5 km ²	1.0
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	HNCA 7312, Tactical Foot Marches	15 km ²	6.0
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	HNTA 0316, Land Navigation	50 km ²	8.0
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	HCTA 0704, Dismounted GPS Navigation	10 km ²	21.0
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	HNCA 2802, Map Reading	.4 km ²	0.5
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	HNZA 1504, Establish a Bivouac Site	1 km ²	2
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DG08 Mounted GPS Navigation	100 km ²	2.0
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	HNSA 0178, STX	50 km ²	15.0
19D10-OSUT (M3): M3 Bradley/CFV Cavalry Scout	DNO7, Conduct Armor Tactical Navigation	100 km	0.5
611-63A30: M1A1 Abrams Tank System Maintainer	63A30F01/2/3	1 km ²	1.5
020-ASIK4: M1A2 TANK CREWMAN	AA09, Drive An M1A2 Tank (Program a Way Point)	10 km ²	1.0
BCT	March Route (Tactical Foot)	15 km ²	3.5
BCT	Basic Map Reading	1 km ²	0.5
Aviation School, Fort Rucker			
Initial Entry Rotary Wing (IERW) Aviator (Common Core)	Aviator Tng	17,700 km ²	See Note at end of Avn School
IERW Aviator (UH-1)	Aviator Tng	17,700 km ²	
IERW Aviator (OH-58)	Aviator Tng	17,700 km ²	
Rotary Wing ISTR IP Methods of Instruction (MOI) (TH-67)	Aviator Tng	17,700 km ²	

Table B-1. Institutional POI Maneuver Area Requirements			
Courses	Events	Size (km²)	Duration (Days)
Rotary Wing Aviator Refresher Training	Aviator Tng	17,700 km ²	
Rotary Wing Qualification	Aviator Tng	17,700 km ²	
Primary IP/MOI (Civilian Contractor)	Aviator Tng	17,700 km ²	
AH-64 Aviator Qualification	Aviator Tng	2,560 km ²	
AH-64 Instructor Pilot	Aviator Tng	2,560 km ²	
AH-64 Instructor Pilot MOI	Aviator Tng	2,560 km ²	
AH-47D Aviator Qualification	Aviator Tng	3,844 km ²	
AH-47D Instructor Pilot	Aviator Tng	3,844 km ²	
AH-47D Instructor Pilot MOI	Aviator Tng	3,844 km ²	
OH-58 A/C Instructor Pilot	Aviator Tng	17,700 km ²	
OH-58 Aeroscout NVD IP MOI (IERW)	Aviator Tng	17,700 km ²	
OH-58 Aeroscout IP MOI (IERW)	Aviator Tng	17,700 km ²	
OH-58D Warrior Aviator Qualification	Aviator Tng	6,147 km ²	
OH-58D Warrior Instructor Pilot	Aviator Tng	6,147 km ²	
OH-58D Warrior Instructor Pilot MOI	Aviator Tng	6,147 km ²	
UH-1 Method of Instruction Course	Aviator Tng	17,700 km ²	
UH-1 N/NVG Instructor Pilot MOI	Aviator Tng	17,700 km ²	
UH-1 Instructor Pilot	Aviator Tng	17,700 km ²	
UH-1 NVG Instructor Pilot	Aviator Tng	17,700 km ²	
UH-1 Qualification (FMT)	Aviator Tng	17,700 km ²	
UH-1 NOE Qualification (FMT)	Aviator Tng	17,700 km ²	
UH-1 NVG Qualification (FMT)	Aviator Tng	17,700 km ²	
UH-60 Aviator Qualification	Aviator Tng	17,700 km ²	
UH-60 Instructor Pilot	Aviator Tng	17,700 km ²	
UH-60 Instructor Pilot MOI (Grad)	Aviator Tng	17,700 km ²	
AH-64 Maintenance Test Pilot	Aviator Tng	3,844 km ²	
UH-1 Maintenance Test Pilot	Aviator Tng	3,844 km ²	
UH-60 Maintenance Test Pilot	Aviator Tng	3,844 km ²	
CH-47D Maintenance Test Pilot	Aviator Tng	3,844 km ²	
OH-58 A/C Maintenance Test Pilot	Aviator Tng	3,844 km ²	
OH-58D Warrior Maintenance Test Pilot	Aviator Tng	3,844 km ²	
Fixed Wing Multi-Engine Qualification	Aviator Tng	76,800 km ²	
Fixed Wing Multi-Engine IP	Aviator Tng	76,800 km ²	
Fixed Wing Multi-Engine MOI	Aviator Tng	76,800 km ²	
C-12 Aviator Qualification	Aviator Tng	76,800 km ²	
Spanish-Initial Entry Rotary Wing	Aviator Tng	17,700 km ²	

Table B-1. Institutional POI Maneuver Area Requirements			
Courses	Events	Size (km²)	Duration (Days)
Spanish-Rotary Wing Qualification (UH-1)	Aviator Tng	17,700 km ²	
Spanish-Aviator (UH-1)(Transition)	Aviator Tng	17,700 km ²	
Spanish-NVG Qualification (UH-1)	Aviator Tng	17,700 km ²	
Spanish-Instructor Pilot (UH-1)	Aviator Tng	17,700 km ²	
Spanish-Aviator (UH-60)(Transition)	Aviator Tng	17,700 km ²	
Spanish-NVG IP(UH-1)	Aviator Tng	17,700 km ²	
Spanish-UH-60 NVG Qualification	Aviator Tng	17,700 km ²	
Spanish-UH-1 Maintenance Manager	Aviator Tng	No Aircraft Flight	
Spanish-UH-1 Test Pilot	Aviator Tng	17,700 km ²	
EURO-NATO Aviator Common Core (IERW)	Aviator Tng	17,700 km ²	
EURO-NATO Aviator UH-1 Track (IERW)	Aviator Tng	17,700 km ²	
EURO-NATO Advanced Combat Skills	Aviator Tng	17,700 km ²	
EURO-NATO Advanced IFR (UH-1)	Aviator Tng	76,800 km ²	
EURO-NATO Night Unaided	Aviator Tng	17,700 km ²	
Rotary Wing Instrument (Non-US)* *Training conducted only at Fort Rucker	Aviator Tng	76,800 km ²	
Rotary Wing Instrument (German)* *Training conducted only at Fort Rucker	Aviator Tng	76,800 km ²	
Note: Corresponds to course length. Course length may vary due to weather, equipment availability, and other reasons.			
Basic Training at Fort Jackson, South Carolina			
See The Infantry School input for Requirements for Basic Training	USAIS is the Proponent for BCT		
Basic Training at Fort Leonard Wood			
See The Infantry School input for Requirements for Basic Training	USAIS is the Proponent for BCT		
Quartermaster School and Center, Fort Lee			
491-77L10 Petroleum Laboratory Specialist AIT	POL Tng	1 km ²	3.0
491-77L10 Petroleum Laboratory Specialist AIT	“LOG WARRIOR”	1 km ²	3.0
491-77L30 Petroleum Laboratory Specialist BNCOC	POL Tng	1 km ²	1.5
491-77L30 Petroleum Laboratory Specialist BNCOC	“LOG WARRIOR”	1 km ²	4.5

Table B-1. Institutional POI Maneuver Area Requirements			
Courses	Events	Size (km²)	Duration (Days)
821-77F10 Petroleum Supply Specialist AIT	POL Tng	1 km ²	29.0
821-77F10 Petroleum Supply Specialist AIT	“LOG WARRIOR”	1 km ²	3.0
821-77F30 Petroleum Supply Specialist BNCOC	POL Tng	1 km ²	10.0
821-77F30 Petroleum Supply Specialist BNCOC	“LOG WARRIOR”	1 km ²	4.5
8-77-C42 Petroleum And Water Specialist ANCOC	Water Supply Tng	1 km ²	2.0
8-77-C42 Petroleum And Water Specialist ANCOC	POL Tng	1 km ²	4.0
8-77-C42 Petroleum And Water Specialist ANCOC	“LOG WARRIOR”	1 km ²	7.0
720-77W10 Water Treatment Specialist AIT	Water Supply Tng	1 km ²	40.0
720-77W10 Water Treatment Specialist AIT	“LOG WARRIOR”	1 km ²	3.0
720-77W30 Water Treatment Specialist BNCOC	Water Supply Tng	1 km ²	21.0
720-77W30 Water Treatment Specialist BNCOC	“LOG WARRIOR”	1 km ²	4.5
8B-92F Petroleum Officers Course	Water Supply Tng	1 km ²	0.5
8B-92F Petroleum Officers Course	POL Tng	1 km ²	2.0
821-1391 (OS) Bulk Fuel Specialist (USMC)	POL Tng	1 km ²	17.5
492-92M10 Mortuary Affairs Specialist	Land Nav	1 km ²	1.5
492-92M10 Mortuary Affairs Specialist	MA Tng	1 km ²	2.0
492-92M10 Mortuary Affairs Specialist:	“LOG WARRIOR”	1 km ²	3.0
492-92M30 Mortuary Affairs Specialist BNCOC	MA Tng	1 km ²	1.5
492-92M30 Mortuary Affairs Specialist BNCOC	“LOG WARRIOR”	1 km ²	4.5
492-92M40 Mortuary Affairs Specialist ANCOC	QM Tng	1 km ²	3.0

Table B-1. Institutional POI Maneuver Area Requirements			
Courses	Events	Size (km²)	Duration (Days)
492-92M40 Mortuary Affairs Specialist ANCOC	MA Tng	1 km ²	1.5
492-92M40 Mortuary Affairs Specialist ANCOC	“LOG WARRIOR”	1 km ²	4.5
8B-S14V Mortuary Affairs Officer Crse	MA Tng	1 km ²	0.5
492-F1 Joint Mortuary Affairs Senior NCO Crse	MA Tng	1 km ²	1.0
551-92A10 Automated Logistics Specialist AIT	“LOG WARRIOR”	1 km ²	3.0
551-92A30 Automated Logistics Specialist BNCOC	“LOG WARRIOR”	1 km ²	4.5
551-92A40 Automated Logistics Specialist ANCOC	“LOG WARRIOR”	1 km ²	4.5
552-92Y10 Unit Supply Specialist AIT	“LOG WARRIOR”	1 km ²	3.0
552-92Y30 Unit Supply Specialist BNCOC	“LOG WARRIOR”	1 km ²	4.5
552-92Y40 Unit Supply Specialist ANCOC	“LOG WARRIOR”	1 km ²	4.5
8-10-C20-92A Quartermaster Officer Basic	FTX	1 km ²	8.5
8-10-C20-92A Quartermaster Officer Basic	POL Tng	1 km ²	4.5
8-10-C20-92A Quartermaster Officer Basic	Wtr Tng	1 km ²	2.0
8B-920A Property Accounting Tech WOBC	POL Tng	1 km ²	0.5
8B-920A Supply Systems Tech WOBC	POL Tng	1 km ²	0.5
8B-92A/B Supply and Services	POL Tng	1 km ²	0.5
8B-920A/B Management	Wtr Tng	1 km ²	0.5
8-10-C22 (LOG) Combined Logistics Officer Advance (LOG)	POL Tng	1km ²	0.5
8-10-C22 (LOG) Combined Logistics Officer Advance (LOG)	Wtr Tng	1 km ²	0.5
840-92S30 Laundry/Textile Specialist BNCOC	LOG WARRIOR	1 km ²	4.5

Table B-1. Institutional POI Maneuver Area Requirements			
Courses	Events	Size (km²)	Duration (Days)
840-92S40 Laundry/Textile Specialist ANCOC	LOG WARRIOR	1 km ²	4.0
860-92R1P Parachute Rigger	Student Jump	1 km ²	1.0
860-92R1P Parachute Rigger	"LOG WARRIOR"	1 km ²	3.0
860-92R3P Parachute Rigger BNCOC	PMCS Fld Tng Site/B-Drill	1 km ²	1.0
860-92R3P Parachute Rigger BNCOC	"LOG WARRIOR"	1 km ²	3.0
860-92R4P Parachute Rigger ANCOC	SINGARS GPS TAC Road Mar	1 km ²	4.0
860-92R4P Parachute Rigger ANCOC	"LOG WARRIOR"	1 km ²	4.5
4N921A Airdrop Sys Tech WO	Student Jump AIRDROP EX	1 km ²	1.0
8B-92D Aerial Delivery & Material Opns	Student Jump AIRDROP EX	1 km ²	1.
860-F4 Sling Load Insp Certification	DZ SLING LOAD OPS/EXAM	1 km ²	1.5
101-Q-0001-TSP Sling Load Opn TTT	Air Drop TEAC Slingload Ops	1 km ²	1.0
8-10-C32-921A Ad Sys Tech WO	Student Jump	1 km ²	1.0
800-92G10 Food Service Specialist AIT	"LOG WARRIOR"	1 km ²	0.5
800-92G30 Food Service Specialist BNCOC	"LOG WARRIOR"	1 km ²	4.5
800-92G40 Food Service Specialist ANCOC	"LOG WARRIOR"	1 km ²	4.0
800-F18 (OS) SNCO Food Service (USMC)	FTX	1 km ²	4.0
800-F19 (OS) SNCO Food Service	FTX	1 km ²	9.0
800-F20-RC (OS) Fld Food Service-RC (USMC)	FTX	1 km ²	12.0

Table B-1. Institutional POI Maneuver Area Requirements			
Courses	Events	Size (km²)	Duration (Days)
Chemical School (MANSCEN) Fort Leonard Wood			
Chemical Operations Specialist [54]	NBC Tng	6 km ²	8.0
Officer Instruction	NBC Tng	18 km ²	6.0
Non-commissioned Officer Education System (NCOES)	NBC Tng	18 km ²	12.0
NBC Reconnaissance Specialist	FTX	18 km ²	3.0
Biological Integrated Detection Specialist	FTX	18 km ²	3.0
WMD Installation Emergency Responder	FTX	1 km ²	1.0
WMD Civil Support Team	FTX	1 km ²	2.0
Engineer School (MANSCEN), Fort Leonard Wood			
Engineer Diver [00B]	MOS Skills Tng	10 km ²	48.0
Combat Engineer [12B]	MOS Skills Tng	18 km ²	30.0
Bridge Crew Member [12C]	MOS Skills Tng	8 km ²	30.0
Carpentry/Masonry Specialist [51B]	MOS Skills Tng	6 km ²	30.0
Plumber [51K]	MOS Skills Tng	6 km ²	30.0
Firefighter [51M]	MOS Skills Tng	12 km ²	42.0
Electrician [51R]	MOS Skills Tng	6 km ²	30.0
Technical Engineer Specialist [51T]	MOS Skills Tng	6 km ²	30.0
Utilities equipment Repair [52C]	MOS Skills Tng	6 km ²	30.0
Power Generation Equipment Repair [52D]		6 km ²	30.0
Construction Equipment Repair [62B]	MOS Skills Tng	4 km ²	30.0
Heavy Construction Equipment Operator [62E]	MOS Skills Tng	16 km ²	36.0
Crane Operator [62F]	MOS Skills Tng	16 km ²	36.0
Quarry Specialist [62G]	MOS Skills Tng	12 km ²	36.0
Concrete Asphalt Equipment Operator [62H]	MOS Skills Tng	10 km ²	30.0
General Construction Equipment Operator [62J]	MOS Skills Tng	16 km ²	30.0
Basic Topographic Analyst [81T]	MOS Skills Tng	6 km ²	30.0
Basic Topographic Surveyor [82D]	MOS Skills Tng	16 km ²	36.0
Non-commissioned Officer Education System (NCOES)	MOS Skills Tng	18 km ²	10.0

Table B-1. Institutional POI Maneuver Area Requirements			
Courses	Events	Size (km²)	Duration (Days)
Field Artillery School, Fort Sill			
Cannon Crew Member [13B10]	Ammo Test	5 km ²	1.0
Cannon Crew Member [13B10]	FTX	5 km ²	4.0
Cannon Section Chief [13B30] (BNCOC)	STX	25 km ²	3.0
Field Artillery Platoon Sergeant [13B40]	STX	25 km ²	3.0
Auto Fire Support Systems [13C30] (BNCOC)	STX	25 km ²	3.0
Auto Fire Support Systems [13C40] (ANCOG)	STX	25 km ²	3.0
Cannon Fire Direction Section Chief [13E30] (BNCOC)	STX	25 km ²	3.0
MLRS Crewman [13P10]	FTX	12km ²	3.0
MLRS Fire Direction [13P30] (BNCOC)	STX	25 km ²	3.0
MLRS Fire Direction Senior Sergeant [13P40] (BNCOC) STX	STX	5km ²	3.0
Infantry School, Fort Benning			
Sniper Course	Escape and Evasion	1 km ²	0.5
Sniper Course	FTX	101 km ²	3.0
Bradley Master Gunner's Course	Bivouac	6 km ²	6.0
IOBC	Land Nav STX	16 km ²	8.5
IOBC	Terrain Association Orienteering	8 km ²	0.5
IOBC	Map Reading Land Navigation Examination	11 km ²	1.0
IOBC	Land Navigation Retraining	8 km ²	1.0
IOBC	Map Reading and Land Navigation Retest	12 km ²	1.5
IOBC	Squad STX	25 km ²	15.0
IOBC	Platoon STX	50 km ²	13.5
IOBC	Advanced Land Navigation	43 km ²	2.5
IOBC	Advanced Land Navigation Retest	43 km ²	2.5
IOBC	Defensive STX	46 km ²	9.5

Table B-1. Institutional POI Maneuver Area Requirements			
Courses	Events	Size (km²)	Duration (Days)
IOBC	Offensive TEWT	37 km ²	1.0
IOBC	Advanced Land Navigation II Examination	39 km ²	4.0
IOBC	Platoon Attack STX	40 km ²	13.0
IOBC	Company FTX	65 km ²	10.0
Infantry Captains Career Course (ICCC)	Orienteering Examination	18 km ²	2.0
ICCC	Light Infantry Company Attack TEWT	13 km ²	0.5
ICCC	Light Infantry Battalion Defense TEWT	13 km ²	0.5
ICCC	Mechanized Company Team Attack TEWT	34 km ²	0.5
Officer Candidate School (OCS)			
OCS	Land Navigation Train-up	1 km ²	6.0
OCS	Land Navigation Terrain Association	7 km ²	1.5
OCS	Field Leadership Exercise 1	11 km ²	13.5
OCS	Terrain Association Extended Distance DAY	11 km ²	1.0
OCS	Land Navigation Terrain Association	7 km ²	1.0
OCS	Land Navigation Field Exercise	7 km ²	0.5
OCS	Terrain Association Extended Distance NIGHT	11 km ²	0.5
OCS	Advanced Land Navigation	7 km ²	0.5
OCS	Land Navigation Reinforcement	11 km ²	1.0
OCS	Map Reading Land Navigation Examination	11 km ²	1.0

Table B-1. Institutional POI Maneuver Area Requirements			
Courses	Events	Size (km²)	Duration (Days)
OCS	Terrain Association Reinforcement	11 km ²	1.0
OCS	Map Reading Land Navigation Retest	11 km ²	1.0
OCS	Squad Stakes	1 km ²	1.0
OCS	Squad STX	40 km ²	4.0
OCS	Squad Tactical Reaction Assessment	10 km ²	9.0
OCS I	Field Leadership Exercise I	26 km ²	18.5
Long Range Surveillance Leader (LRSL)	Infiltration/Exfiltration	23 km ²	2.5
LRSL	Survival	23 km ²	3.0
LRSL	Subsurface Hide Site	7 km ²	1.0
LRSL	CWST/APFT	17 km ²	0.5
LRSL	STX	35 km ²	12.0
LRSL	Communications Exercise (COMMEX)	7 km ²	1.5
LRSL	FTX	35 km ²	22.5
LRSL	Land Navigation Re-Test	30 km ²	1.5
LRSL	Land Navigation Examination	30 km ²	1.5
LRSL	Commo Procedures	30 km ²	1.0
LRSL	FRIES/SPIES	7 km ²	0.5
LRSL	Battle Drills	7 km ²	0.5
Jumpmaster	Actions in Aircraft Examination	3 km ²	3.0
Mechanized Vehicle Leader (MLC)			
MLC	Defensive TEWT	14 km ²	0.5
MLC	Offensive TEWT	14 km ²	0.5
MLC	FTX- Precision Lightweight GPS Receiver (PLGR) Training	27 km ²	7.5
Infantry Mortar Leader	FTX	1 km ²	3.0

Table B-1. Institutional POI Maneuver Area Requirements			
Courses	Events	Size (km²)	Duration (Days)
Infantry Mortar Leader	Mech Training Examination	1 km ²	0.5
Airborne	Parachute Jumps	3 km ²	7.5
Pathfinder	Training Area	23 km ²	7.5
Pathfinder	Sling Load Operations	5 km ²	3.0
Pathfinder	PZ/LZ Operations	23 km ²	4.5
Pathfinder	Drop Zone	23 km ²	7.5
RANGER	Demolitions	4 km ²	0.5
RANGER	Ranger in Action	1 km ²	0.5
RANGER	Combat Water Survival Test	1 km ²	0.5
RANGER	Cadre-led Ambush/Raid	7 km ²	3.0
RANGER	Cadre-led Graded Ambush	30 km ²	3.0
RANGER	Cadre-led Raid	30 km ²	6.0
RANGER	Student-led Graded Ambush Antiarmor	TBD	TBD
RANGER	Ambush and Recon	55 km ²	9.0
RANGER	Student-led Graded Raid	32 km ²	9.0
RANGER	Fundamentals of Patrolling	4 km ²	7.0
RANGER	Airborne Refresher	1 km ²	1.0
RANGER	Operation Anzio	2 km ²	1.0
RANGER	Platoon Technique Training	32 km ²	3.0
RANGER	Combatives	3 km ²	1.5
RANGER	Ranger Runs	6 km ²	1.0
RANGER	Rifle Bayonet Training	4 km ²	2.0
RANGER	APFT	2 km ²	0.5
RANGER	Water Confidence Test	1 km ²	0.5
RANGER	Darby Queen	1 km ²	1.0
RANGER	Foot March	30 km ²	1.5
RANGER	Terrain Association	18 km ²	1.0

Table B-1. Institutional POI Maneuver Area Requirements			
Courses	Events	Size (km²)	Duration (Days)
RANGER	Basic Map Reading	18 km ²	0.5
RANGER	Land Navigation Examination	29 km ²	1.0
RANGER	Land Navigation Re-examination	29 km ²	1.0
BCT	March Route (Tactical Foot)	3 km ²	0.5
BCT	March Route (Tactical Foot)	5 km ²	0.5
BCT	March Route (Tactical Foot)	8 km ²	0.5
BCT	March Route (Tactical Foot)	10 km ²	0.5
BCT	March Route (Tactical Foot)	10km ²	0.5
BCT	March Route (Tactical Foot)	15km ²	1.0
BCT	Basic Map Reading	1km ²	0.5
BCT	FTX	20 km ²	14.0
BCT	Serve as member of a Team	10 km ²	1.0
Inf –OSUT	March Route (Tactical Foot)	4 km ²	0.5
Inf –OSUT	March Route (Tactical Foot)	8 km ²	0.5
Inf –OSUT	March Route (Tactical Foot)	10 km ²	0.5
Inf –OSUT	March Route (Tactical Foot)	12 km ²	0.5
Inf –OSUT	March Route (Tactical Foot)	16 km ²	0.5
Inf –OSUT	March Route (Tactical Foot)	20.0 km ²	1.0
Inf –OSUT	March Route (Tactical Foot)	25 km ²	1.0
Inf –OSUT	March Route (Tactical Foot)	30 km ²	1.0
Inf –OSUT	Basic Map Reading	1 km ²	0.5
Infantryman ANCOC	Land Navigation	6 km ²	1.0

Table B-1. Institutional POI Maneuver Area Requirements			
Courses	Events	Size (km)	Duration (Days)
Infantryman ANCOC	Land Navigation Examination Retest	6 km ²	1.0
Infantryman ANCOC	Land Navigation Examination	6 km ²	1.0
Infantryman ANCOC	STX	5 km ²	9.5
Infantryman ANCOC	TEWT	5 km ²	2.0
Infantryman ANCOC	Patrolling	5 km ²	3.5
Indirect Fire Infantryman ANCOC	Land Navigation	6 km ²	1.0
Indirect Fire Infantryman ANCOC	Land Navigation Retest	6 km ²	1.0
Indirect Fire Infantryman ANCOC	Land Navigation Examination	6 km ²	1.0
Indirect Fire Infantryman ANCOC	STX	5 km ²	9.5
Indirect Fire Infantryman ANCOC	TEWT	2 km ²	1.0
Infantryman-BNCOC	PLGR	6 km ²	0.5
Infantryman-BNCOC	Land Navigation	6 km ²	1.0
Infantryman-BNCOC	Land Navigation Exam Day	6 km ²	0.5
Infantryman-BNCOC	Land Navigation Retest	6 km ²	0.5
Infantryman-BNCOC	Tactics	32 km ²	4.5
Infantryman-BNCOC	Patrolling	32 km ²	1.5
Infantryman-BNCOC	STX	32 km ²	10.5
Indirect Fire Infantryman BNCOC	PLGR	6 km ²	0.5
Indirect Fire Infantryman BNCOC	Land Navigation	6 km ²	1.0
Indirect Fire Infantryman BNCOC	Land Navigation Exam	6 km ²	0.5
Indirect Fire Infantryman BNCOC	Land Navigation Exam Night	6 km ²	0.5
Indirect Fire Infantryman BNCOC	Land Navigation Retest	6 km ²	1.0
Indirect Fire Infantryman BNCOC	STX	32 km ²	8.5
Drill Sergeant	STX/FTX	5 km ²	1.5
Primary Leadership Development Course (PLDC)	FTX	24 km ²	11.5
PLDC	Land Navigation	6 km ²	1.5
PLDC	MILES Training	14 km ²	0.5

Table B-1. Institutional POI Maneuver Area Requirements			
Courses	Events	Size (km²)	Duration (Days)
Military Intelligence School, Fort Huachuca			
MIOBC Officer Basic Course	Field Tng	111 km ²	1.0
MIOAC MI Captain's Career Course	FTX	64 km ²	1.0
MIOAC MI Captain's Career Course	Professional Development	4 km ²	1.0
33W EW/Intercept Systems Maintenance IET	FTX	200 km ²	3.0
96B Intel Analyst IET	FTX	1 km ²	4.0
96B Intel Analyst IET	Land Navigation	4 km ²	1.0
96D Imagery Analyst IET	FTX	4 km ²	3.0
96H Imagery Ground Station Opr IET	FTX	4 km ²	3.0
96R Ground Surveillance System Opr IET	FTX	9 km ²	2.0
96R Ground Surveillance System Opr IET	Land Navigation	4 km ²	1.0
96R Ground Surveillance System Opr BNCOC	STX	4 km ²	3.0
96U UAV Opr IET	FTX	25 km ²	3.0
96U UAV Opr IET	Launch/Recovery	10 km ²	270.0
96U UAV Opr BNCOC	PE/TEST	4 km ²	7.0
SEMA (UAV Associated)	Operations	25 km ²	270.0
97B CI Agent IET	FTX	1 km ²	4.0
97B CI Agent IET	Land Navigation	4 km ²	1/0
97E HUMINT Collector	FTX	1 km ²	4.0
97E HUMINT Collector	Land Navigation	4 km ²	1.0
98G EW/SIG Voice Interceptor BNCOC	STX	4 km ²	1.0
98H Morse Interceptor BNCOC	STX	4 km ²	1.0
98J Non-Communications Interceptor/Analyst IET	FTX	4 km ²	3.0
96/98CMF ANCOC	Land Navigation	4 km ²	1.0
Military Police School (MANSCEN), Fort Leonard Wood			
Military Police [95B]	MOS Skills Tng	25 km ²	40.0
Corrections Specialst [95C]	MOS Skills Tng	8 km ²	40.0
Officer Instruction	Officer Tng	25 km ²	15.0
Non-commissioned Officer Education System (NCOES)	NCO Tng	25 km ²	15.0

Table B-1. Institutional POI Maneuver Area Requirements			
Courses	Events	Size (km)	Duration (Days)
NCO Academy (Soldier Support Institute), Fort Jackson			
71L30 Admin Spec BNCOC	FTX	12 km ²	3
71L40 Admin Spec BNCOC	FTX	12 km ²	3
27D30 Paralegal Spec BNCOC	FTX	12 km ²	3
27D40 Paralegal Spec ANCOG	FTX	12 km ²	3
73C/D30 Finance/Accounting BNCOC	FTX	12 km ²	3
NCO Academy (Soldier Support Institute), (cont)			
73C/D40 Finance/Accounting ANCOG	FTX	12 km ²	3
75H30 Personnel Sgt BNCOC	FTX	12 km ²	3
75H40 Senior Personnel Sgt ANCOG	FTX	12 km ²	3
71M30 Chap Asst BNCOC	FTX	12 km ²	3
71M40 Chap Asst ANCOG	FTX	12 km ²	3
Ordnance School, Aberdeen Proving Ground			
63B30 Light Wheeled Vehicle Mechanic	FTX	1 km ²	3.0
45G10 Fire Control System	FTX	1 km ²	3.0
63G10 Fuel Electronic Systems	FTX	1 km ²	3.0
63W10 Wheeled Vehicle Rpr	FTX	1 km ²	3.0
45B10 Small Arms Rpr	FTX	1 km ²	3.0
45D10 SP FA Turret Rpr	FTX	1 km ²	3.0
45G10 Fire Control Sys Rpr	FTX	1 km ²	3.0
52D10 Power Generator Equipment Rpr	FTX	1 km ²	3.0
63Y10 Track Veh Mechanic	FTX	1 km ²	3.0
63H10 Track Veh Rpr	FTX	1 km ²	3.0
63J10 QTRM/CHEM Equipment Rpr	FTX	1 km ²	3.0
63W10 Wheel Veh Rpr	FTX	1 km ²	3.0
44B10 Metal Worker	FTX	1 km ²	3.0
44E10 Machinist	FTX	1 km ²	3.0
44G10 Fire Control System	FTX	1 km ²	3.0
44K10 Armament Rpr	FTX	1 km ²	3.0
45K30 Armament Repair Supervisor	FTX	1 km ²	3.0
52C30 Utility Equipment Rpr Supervisor	FTX	1 km ²	3.0
52C30 (63J) Utility Equipment Rpr Supervisor	FTX	1 km ²	3.0
52D30 Power Generator Equipment Rpr Supervisor	FTX	1 km ²	3.0

Table B-1. Institutional POI Maneuver Area Requirements			
Courses	Events	Size (km²)	Duration (Days)
44E30 Metal Worker BNCOC	FTX	1 km ²	3.0
63H30 Track Vehicle BNCOC	FTX	1 km ²	3.0
C20 Ordnance Maintenance Management OBC	FTX	1 km ²	3.0
63D10 SP FA Systems Mechanic	FTX	1 km ²	3.
63H30 Track Vehicle BNCOC	FTX	1 km ²	3.0
63H30 Track Vehicle BNCOC	Recovery Ops	1 km ²	5.0
63D30 SP FA Sysytems Mechanic	Recovery Ops	1 km ²	3.0
63D30 SP FA Systems Mechanic	FTX	1 km ²	3.0
4L-915A Unit Maintenance Technician	Recovery Ops	1 km ²	2
C32-914A Allied Trades	Tow Disabled Vehicle	1 km ²	1.0
C32-915E Senior Auto Mechanic	Tow Disabled Vehicle	1 km ²	1.0
63B30 Track Vehicle BNCOC	Recovery Ops	1 km ²	5.0
63B30 Track Vehicle BNCOC:	FTX	1 km ²	3.0
ASIH8 Track Vehicle Recovery Specialist	Vehicle Recovery	1 km ²	15.0
Ordnance Munitions & Electronic Maintenance School, Redstone			
27E10 Land Combat Elect. Missile Rpr.	FTX	1 km ²	3
27M10 MLRS Repair	FTX	1 km ²	3
27T10 Avenger System Repair	FTX	1 km ²	3
27X10 Patriot Missile Sys Rpr (Ph 2)	FTX	1 km ²	3
27X10 Patriot Missile Sys Rpr (Ph 2)	MOS Trng	1 km ²	80
35D10 ATC Sub-system & Equip. Rpr	FTX	1 km ²	3
35E10 Radio/ COMSEC Rpr	FTX	1 km ²	3
35F10 Special Electronic Devices Rpr.	FTX	1 km ²	3
35H10 TMDE Maint Support Specialist	FTX	1 km ²	3
35J10 Computer/Automation Sys Rep	FTX	1 km ²	3
35L10 Avionic Commo Equip Repair	FTX	1 km ²	3
35M10 Radar Repairer (Ph 2)	FTX	4 km ²	3
35N10 Wire Sys Equip Repair	FTX	1 km ²	3
35R10 Avionic System Repair	FTX	1 km ²	3
35Y10 Integrated Family Test Equip Op	FTX	1 km ²	3
39B10 Apache Helicopter Sys Rep	FTX	1 km ²	3
55B10 Ammo Specialist	ASP Operations	2 km ²	45
55B10 Ammo Specialist	FTX	2 km ²	3
55B10 Ammo Specialist	Ammo Palletize	2 km ²	3
55B10 Ammo Specialist	Demo Range	2 km ²	3

Table B-1. Institutional POI Maneuver Area Requirements			
Courses	Events	Size (km²)	Duration (Days)
55D10/20 EOD Disposal Spec (Ph 1)	Demo Range	3 km ²	13
55D10/20 EOD Disposal Spec (Ph 1)	FTX	3 km ²	3
645-2311 Ammo Tech (USMC)	Inventory/Issue	1 km ²	2
645-2311 Ammo Tech (USMC)	Railhead Ops	2 km ²	3
910A Ammo Warrant Officer Basic	AOC Training	1 km ²	3
35C40 Electronic Maint. BNCOC	FTX	1 km ²	3
35C42 Elect. Maint & Calib ANCOC	FTX	1 km ²	3
35H30 TMDE Maint. Support BNCOC	FTX	1 km ²	3
55B30 Ammo Specialist BNCOC	FTX	2 km ²	3
55B30 Ammo Specialist BNCOC	ASP Ops	2 km ²	2
55B30 Ammo Specialist BNCOC	Railhead Ops	2 km ²	1
55B30 Ammo Specialist BNCOC	Inspect UBL	1 km ²	1
55B30 Ammo Specialist ANCOC	FTX	2 km ²	3
55B30 Ammo Specialist ANCOC	ASP Ops	2 km ²	1
55D40 Explosive Ord Spec BNCOC	STX	12 km ²	23
55D40 Explosive Ord Spec ANCOC	STX	3 km ²	3
Hazardous Devices	STX	9 km ²	9
Hazardous Devices (Rresher)	STX	3 km ²	3
WMD Bomb Tech	STX	1 km ²	1
ASI-J5/SI-55 Technical Escort	STX	1 km ²	8
Reserve Officer Training Corps (ROTC), Cadet Command, Fort Monroe			
Basic Camp		15 km ²	1.0
Advanced Camp	Individual Tactical Training	15 km ²	1.0
Advanced Camp	Squad Tactical Training	15 km ²	5.0
Advanced Camp	Platoon Tactical Training	15 km ²	5.0
Signal School, Fort Gordon			
31P10 Microwave Systems Op/Maint	DGM II STX Site	1 km ²	5.0
31U10 Signal Spt Sys Spec	Systems Integration FTX	1 km ²	8.5
31F10(CT)(F) TATS NTWK SW SYS OP/Maint	SMART-T Maint	1 km ²	10.0
31F10(CT)(F) TATS NTWK SW SYS OP/Maint	STX	1 km ²	8.0

Table B-1. Institutional POI Maneuver Area Requirements			
Courses	Events	Size (km²)	Duration (Days)
31R10(CT)(F) TATS Mult Chnl Sys OP/Maint	Antenna Training	1 km ²	5.0
31R10(CT)(F) TATS Mult Chnl Sys OP/Maint	STX	1 km ²	5.0
31C10 Radio Opr/Maint:	MOS Tng	1 km ²	3.0
31C10 Radio Opr/Maint:	MOS Tng	1 km ²	5.0
31C10 Radio Opr/Maint:	MOS Tng	1 km ²	1.0
31C10 Radio Opr/Maint:	MOS Tng	1 km ²	6.0
31L10(F) Cable Sys Instal/Maint	Tele Cable Const & Maint	1 km ²	4.5
31L10(F) Cable Sys Instal/Maint	CX-11230/G Const/Maint	1 km ²	6.5
31L10(F) Cable Sys Instal/Maint	CX-13295/G Constr/Maint	1 km ²	3.5
31L10(F) Cable Sys Instal/Maint	CX-4566/G Constr/Maint	1 km ²	3.0
4-11-C20 Signal Officer Basic	FTX	8 km ²	15.0
31S/31P40 Satellite/Micro Sys Chf ANCOC	FTX	1 km ²	5.0
5-74-C42 Data Process ANCOC	FTX	1 km ²	5.0
31W40 Telecomm Ops Chf ANCOC	FTX	1 km ²	5.0
31C30 Radio Op/Maint BNCOC	NCO Tng	1 km ²	5.0
31F30 Elect Switch Sys Op BNCOC	Shared Tng Exercise	1 km ²	5.0
31L30 Cable Sys Inst/Maint BNCOC	Shared Tng Exercise	1 km ²	5.0
31R30 Multi Trans Sys Ops/Maint BNCOC	Shared Tng Exercise	1 km ²	5.0
31S30 SATCOM Sys Op/Maint BNCOC	FTX	1 km ²	5.0
31U30 Sig Spt Sys Spec BNCOC	Shared Tng Exercise	1 km ²	5.0
31U40 Sig Spt Sys Spec ANCOC	FTX	1 km ²	5.0
31P30 Microwave Sys Op/Maint	Shared Tng Exercise	1 km ²	5.0
74B30 Info Sys Ops Analyst BNCOC	Shared Tng Exercise	1km ²	5.0
74C30 Rec Telecomm Ctr Op BNCOC	FTX	1 km ²	5.0
74G30 Telecom Comp Op/Maint BNCOC	FTX	1 km ²	5.0
25M30 Multimedia BNCOC	FTX	1 km ²	5.0
25R30 Vis Infor Equip Op/Maint BNCOC	FTX	1 km ²	5.0
25V30 Combat Doc/Production BNCOC	FTX	1 km ²	5.0
46Q/R40 Public Affairs Supv BNCOC	FTX	1 km ²	7.0
46Q/R40 Public Affairs Supv ANCOC	FTX	1 km ²	7.0
4-25-C42 Adv Information Operation Chief	FTX	1 km ²	7.0

Table B-1. Institutional POI Maneuver Area Requirements			
Courses	Events	Size (km)	Duration (Days)
102-31 SATCOM Sys Opr/Maint	OE-371/G, OE-222, 3199 Antenna	1 km ²	12.5
102-31 SATCOM Sys Opr/Maint	AN/TSC-85B/93B	1 km ²	9.5
Special Warfare Center and School (USAJFKSWCS), Fort Bragg			
3A-F38/012-F27 Sere High Risk (LevelC)	Infiltration Course	1 km ²	14.0
011-18B40 SF Wpns Sgt ANCOG	FTX Site	65 km ²	9.0
011-18B40 SF Wpns Sgt ANCOG	Man Tng Area FTX	65 km ²	14.5
011-18C30 SF Engineer Sgt BNCOC	Airborne Operations	2 km ²	3.0
011-18C30 SF Engineer Sgt BNCOC	Man Tng Area FTX	65km ²	28.5
011-18C40 SF Engineer Sgt ANCOG	FTX Site	65 km ²	9.0
011-18C40 SF Engineer Sgt ANCOG	Man Tng Area FTX	65 km ²	14.5
011-18D30 SF Medical Sgt BNCOC (PH2)	Man Tng Area FTX	110 km ²	37.0
011-18D30 SF Medical Sgt BNCOC (PH2)	Tng Site – Local	16 km ²	12.0
011-18D30(2) SF Medical Sgt BNCOC (PH1)	Man Tng Area FTX	110 km ²	37.0
11-18D30(2) SF Medical Sgt BNCOC (PH3)	UW FTX	237 km ²	39
011-18D40 SF Medical Sgt ANCOG	FTX Site	65 km ²	14.5
011-18D40 SF Medical Sgt ANCOG	Man Tng Area FTX	65 km ²	9.0
011-18E30 SF Commo Sgt BNCOC	Commex/FPE Max Gain	11 km ²	63.5
011-18E30 SF Commo Sgt BNCOC	Tng Site – Local	16 km ²	25.5
011-18E30 SF Commo Sgt BNCOC	Man Tng Area FTX	110 km ²	37.0
011-18E40 SF Commo Sgt ANCOG	FTX Site	65 km ²	14.5
011-18E40 SF Commo Sgt ANCOG	Man Tng Area FTX	110 km ²	9.0
2E-F128/001-F43(GM) SOF Basic Military	Drop Zone	1 km ²	1.5
2E-F141/011-F27 Adv Special Ops Tech	Urban/Rural PES	117 km ²	6.5
2E-F141/011-F27 Adv Special Ops Tech	Urban/Rural PES	2876 km ²	3.5
2E-F141/011-F27 Adv Special Ops Tech	Urban/Rural PES	52 km ²	1.5
2E-F141/011-F27 Adv Special Ops Tech	Urban/Rural PES	2526 km ²	2.5
2E-F141/011-F27 Adv Special Ops Tech	Urban/Rural PES	259 km ²	15.0
2E-F141/011-F27 Adv Special Ops Tech	Urban/Rural PES	285 km ²	15.0
2E-F141/011-F27 Adv Special Ops Tech	Urban/Rural PES	310 km ²	15.0
2E-F141/011-F27 Adv Special Ops Tech	Urban/Rural PES	437 km ²	15.0
2E-F141/011-F27 Adv Special Ops Tech	Urban/Rural PES	427 km ²	15.5
2E-F141/011-F27 Adv Special Ops Tech	Urban/Rural PES	3886 km ²	42.5

Table B-1. Institutional POI Maneuver Area Requirements			
Courses	Events	Size (km²)	Duration (Days)
2E-F67/011-ASIW3 Special Ops Target Integration	Tracking/Sketch/Mvmt	2 km ²	TBD
2E-F67/011-ASIW3 Special Ops Target Integration	Judge Distance/Mvmt/ Observation	2 km ²	TBD
2E-F67/011-ASIW3 Special Ops Target Integration	Mvmt Hide FTX	2 km ²	TBD
2E-18A SF Detachment Off Qual	UW FTX Site	236 km ²	39.0
2E-18A SF Detachment Off Qual	FTX Site	65 km ²	95.5
2E-180A SF Tech WO Basic	Urban/Rural FTX	65 km ²	5.5
2E-180A SF Tech WO Basic	FTX Site	65 km ²	16.0
243-37F10 Psyop Specialist	Man Tng Area FTX	65 km ²	11.0
243-37F10 Psyop Specialist	FTX Site	65 km ²	7.5
243-37F30 Psyop Specialist BNCOC	Man Tng Area FTX	65 km ²	25.5
243-37F40 Psyop Specialist ANCOG	Man Tng Area FTX	65 km ²	9.0
3A-F38/012-F-27 Sere High Risk (Level C)	Survival Tng	1 km ²	4.0
3A-F40/011-F-1 Individ Terrorism Awareness	Wheeled Vehicle Driving	1 km ²	1.0
3A-F40/011-F-1(PKO) INTAC (UNPKO)	Wheeled Vehicle Driving	1 km ²	1.0
011-F66 Adv Military Fre-Fall Para	Drop Zone	1 km ²	28.5
011-18B30 SF Wpns Sgt BNCOC	Airborne Operations	2 km ²	2.0
011-18B40 SF Wpns Sgt ANCOG	Airborne Operations	2 km ²	3.0
011-18C40 SF Engineer Sgt ANCOG	Airborne Operations	1 km ²	9.0
011-18D40 SF Medical Sgt ANCOG	Airborne Operations	1 km ²	3.0
011-18E30 SF Commo Sgt BNCOC	Airborne Operations	1 km ²	6.0
011-18E40 SF Commo Sgt ANCOG	Airborne Operations	1 km ²	3.0
101-F12 Special Opn Communications	Airborne Operations	1 km ²	19.5
2E-F114/011-F29(CX) Czech (CX) SOF Basic Military	Drop Zone	1 km ²	1.5
2E-F115/011-F30(KP) Korean (KP) SOF Basic Military	Drop Zone	1 km ²	1.5
2E-F116/011-F31(TH) Thailand (TH) SOF Basic Military	Drop Zone	1 km ²	1.5
2E-F117/011-F32(QB) Spanish (QB) SOF Basic Military	Drop Zone	1 km ²	1.5
2E-F118/011-F33(RU) Russian (RU) SOF Basic Military	Drop Zone	1 km ²	1.5

Table B-1. Institutional POI Maneuver Area Requirements			
Courses	Events	Size (km²)	Duration (Days)
2E-F119/011-F34(PL) Polish (PL) SOF Basic Military	Drop Zone	1 km ²	1.5
2E-F120/011-F35(FR) French (FR) SOF Basic Military	Drop Zone	1 km ²	1.5
2E-F121/011-F36(AD) Arabic (AR) SOF Basic Military	Drop Zone	11 km ²	1.5
2E-F122/011-F37(PF) Persian Farsi (PF) SOF Basic Military	Drop Zone	1 km ²	1.5
2E-F124/011-F39(PT) Portuguese (PT) SOF Basic Military	Drop Zone	1 km ²	1.5
2E-F125/011-F40(TA) Tagalog (TA) SOF Basic Military	Drop Zone	1 km ²	1.5
2E-F126/011-F40(VN) Vietnamese (VN) SOF Basic Military	Drop Zone	1 km ²	1.5
2E-F133/011-F46 SF Adv recon, Tgt Anal, & Expl	Abn Operations	1 km ²	1.5
2E-F141/011-F27 Adv Special Ops Tech	Drop Zone	1 km ²	.5
2E-F56/011-F15 Military Free Fall Jumpmaster	Abn Operations	2 km ²	11.0
2E-S14X/ASI14X/011-AS Military Free Fall Para	Airborne Operations	2 km ²	15.0
2E-180A SF Tech WO Basic	Drop Zone	1 km ²	1.5
243-37F10 Psyop Specialist	Drop Zone	1 km ²	2.5
243-37F30 Psyop Specialist BNCOC	Airborne Operations	2 km ²	.5
243-37F40 Psyop Specialist ANCOG	Airborne Operations	2 km ²	.5
3A-F38/012-F27 Sere High Risk (Level C)	Airborne Operations	2 km ²	.5
2E-F129/011-F44 SF Assessment and Selection	Obstacle Course	1 km ²	2.0
3A-F38/012-F-27 Sere High Risk Level C)	Obstacle Course	1 km ²	2.5
2E-F129/011-F44 SF Assessment and Selection	Land Navigation	129 km ²	10.0
2E-18A SF Detachment Off Qual	Land Navigation	65 km ²	18.5
2E-180A SF Tech WO Basic	Land Navigation Tng	65 km ²	2.0
500-38A10-RC Civil Affairs Specialist-RC	Land Navigation Tng	129km ²	4.0
3A-F38/012-F-27 Sere High Risk Level C)	Survival Tng FTX	236 km ²	13.5
2E-180A SF Tech WO Basic	Public Land Tng Site	236 km ²	16.0

Table B-1. Institutional POI Maneuver Area Requirements			
Courses	Events	Size (km)	Duration (Days)
Transportation School, Fort Eustis			
88M10 Motor Transport Operator	Wheeled Veh Driving (Training conducted at Fort Leonard Wood)	1 km ²	1.0
88M10 Motor Transport Operator	Wheeled Veh Driving (Training conducted at Fort Leonard Wood)	1 km ²	1.0
ASIH7 Petroleum Vehicle Operator	Wheeled Veh Driving (Training conducted at Fort Leonard Wood)	1 km ²	1.0
88P10-RC Locomotive Rpr-RC	Rail Ops	27.35 km Note: Rail Ops in kms not km ²	0.5
8-55-C20-88A/C/D Transportation Officer Basic	Tactical EX	1 km ²	1.0
8-55-C20-88A/C/D Transportation Officer Basic	SEALINK CPX	1 km ²	0.5
8-55-C20-88A/C/D Transportation Officer Basic	SEALINK CPX	5.56 Naut Miles	1.0
8-55-C20-88A/C/D Transportation Officer Basic	Land Nav	1 km ²	0.5
8-55-C20-88A/C/D Transportation Officer Basic	TB FTX	2 km ²	0.5
8-55-C20-88A/C/D Transportation Officer Basic	Tac Ops Site	1 km ²	0.5
8-55-C20-88A/C/D Transportation Officer Basic	A/DACG Ops	1 km ²	0.5
8-55-C20-88A/C/D Transportation Officer Basic	Rail Ops	1 km ²	0.5
8-55-C20-88A/C/D (BQ) Trans Officer Basic (Branch Qual)	Tac Opn Site	1 km ²	0.5
8-55-C20-88A/C/D (BQ) Trans Officer Basic (Branch Qual)	Rail Ops	5 km ²	0.5
8-55C20-88A/C/D (BQ) Trans Officer Basic (Branch Qual)	Amphibious Orientation	1 km ²	0.5

Table B-1. Institutional POI Maneuver Area Requirements			
Courses	Events	Size (km)	Duration (Days)
8-55-C22 (LOG) Combined Logistics Captains Career Course (CLC3) (P2)	Tac Opn Site	1 km ²	0.5
8-55-C22 (LOG) Combined Logistics Captains Career Course (CLC3) (P2)	Rural Opn Site	1 km ²	0.5
8-55-C22 (LOG) Combined Logistics Captains Career Course (CLC3) (P2)	Amphibious Orientation	5 km ²	0.5
8-55-C23C Trans Officer Advanced RC-Marine Terminal	Amphibious Orientation	5 km ²	0.5
8-55-C23C Trans Officer Advanced RC-Highway/Rail	Rural Opn Site	1 km ²	0.5
88U10-RC Railway Operations Crewmember (RC)	Locomotive Opns	27.35 km (Rail opns in kms not km ²)	1.0
88H10 Cargo Specialist	Miscellaneous	1 km ²	2.0
88T10 Railway Section Rpr (RC)	Track Repair	27.35 km (Rail opns in kms not km ²)	0.5
88M30 MotorTransport Opr BNCOC	Field Site	2 km ²	0.5
88M30 MotorTransport Opr BNCOC	Driver Tng Area	1 km ²	0.5
88M40 MotorTransport Opr ANCOC	Field Site	1 km ²	0.5
88H20/30 Cargo Specialist BNCOC	Miscellaneous	1 km ²	1.5
88H40 Cargo Specialist ANCOC	Miscellaneous	1 km ²	0.5
88L10 Watercraft Engineer	Fld Tng Exercise	26 km ²	9.0
4H-881A Marine Engineering Off- WO Basic Crse	Fld Tng Ex	26 km ²	15.0
88K10 Watercraft Operator (AIT)	Seamanship	28 Nau mi	5.0
88K10 Watercraft Operator (AIT)	Fld Tng Ex	90 Nau mi	9.0
062-F5 Watercraft Opr Certification	Landing Craft Operations	28 Nau mi	7.5
8C-880A Marine Deck Officer WO Basic Course	Piloting Cruise	600 Nau mi	10.0
8C-880A Marine Deck Officer WO Basic Course	Celestial Cruise	600 Nau mi	10.0
8C-880A Marine Deck Officer Warrant Officer (WO) Basic Course	LCU/TUG OPS	28 Nau mi	36.0
8C-880A Marine Deck Officer WO Basic Course	VSDPT	28 Nau mii	30.0

Table B-1. Institutional POI Maneuver Area Requirements			
Courses	Events	Size (km)	Duration (Days)
8C-SQ12 Marine Deck Officer A2 Certification Crse	Piloting/Celestial Cruise	600 Nau mi	10.0
8C-SQ12 Marine Deck Officer A2 Certification Crse	Watch Officer Performance Test	600 Nau mi	30.0
88L30 Watercraft Engineer BNCOC	Fld Tng Exercise	26 Nau mi	9.0
88L40 Watercraft Engineer ANCOC	Fld Tng Exercise	26 Nau mi	9.0
88K30 Watercraft Operator BNCOC	Fld Tng Exercise	300 Nau mi	9.0
88K30 Watercraft Operator BNCOC	Rigging of TOWS	28 Nau mi	5.5
88K40 Watercraft Operator ANCOC	Fld Tng Exercise	300 Nau mi	9.0
88K40 Watercraft Operator ANCOC	LCU Operations	28 Nau mi	5.0
8C-SI3S/553-F4 Air Deployment Planning Course	Prep Unit Equip	1 km ²	0.5
8C-SI3S/553-F4 Air Deployment Planning Course	463 Cargo Plts	1 km ²	0.5
8C-SI3S/553-F4 Air Deployment Planning Course	A/DACG	1 km ²	0.5
8C-E17/553-F5 Unit Movement Officer Deployment Planning	Rail Load PE	1 km ²	1.0
8C-E17/553-F5 Unit Movement Officer Deployment Planning	Cargo Loadout	1 km ²	0.5
8C-882A Mobility Warrant Officer Basic	Prep Unit Equip	1 km ²	0.5
8C-882A Mobility Warrant Officer Basic	463 Cargo Plts	1 km ²	0.5
8C-882A Mobility Warrant Officer Basic	A/DACG	1 km ²	0.5
88N10 Traffic Management Coordinator	CPX/FTX	1 km ²	9.0
88N30 Traffic Management Coordinator	CPX/FTX	1 km ²	9.0
88N40 Traffic Management Coordinator	CPX/FTX	1 km ²	9.0

Appendix C

Operational Forces Training

Tactical maneuver wins battles and engagements. By keeping the enemy off balance, it also protects the force. In both the offense and the defense, it positions forces to close with and destroy the enemy. FM 3-0, Operations, June 2001.

C-1. Purpose. This Appendix describes the maneuver/training area requirements for Current Force and Future Forces.

C-2. Introduction. Unit training in the current operational environment requires large maneuver/training areas of varying characteristics and complexity. A training environment that restricts unit training and does not properly reflect battlefield conditions fails to prepare units for combat.

C-3. Brigade and Battalion Level Exercises. Brigade and Battalion Commanders use a mix of Live, Virtual and Constructive (L-V-C) training to achieve and sustain unit and staff proficiency on METL and supporting battle tasks. Brigade size units rely more on V-C training to attain and sustain warfighting proficiency. Battalion size units attain and sustain their warfighting proficiency and develop soldier fieldcraft primarily through live training. Smaller units train “in the dirt”, using V-C training to prepare for live training or to retrain on critical tasks.

C-4. Current Forces - Brigade Operational Training.

- a. Brigade Combat Teams (BCT) train to standard on full spectrum operations, which include offensive, defensive, stability and support operations. Commanders train units on the different forms of maneuver or types of defense within these operations, based on his assessment of unit proficiency and METT-TC. Examples of heavy/mechanized BCT offensive maneuver/training area requirements are shown in Fig C-1 and C-2.

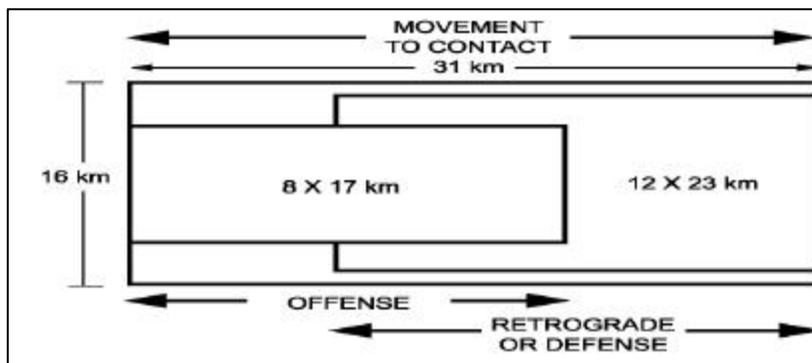


Figure C-1. BCT maneuver/training requirements (isolated events)

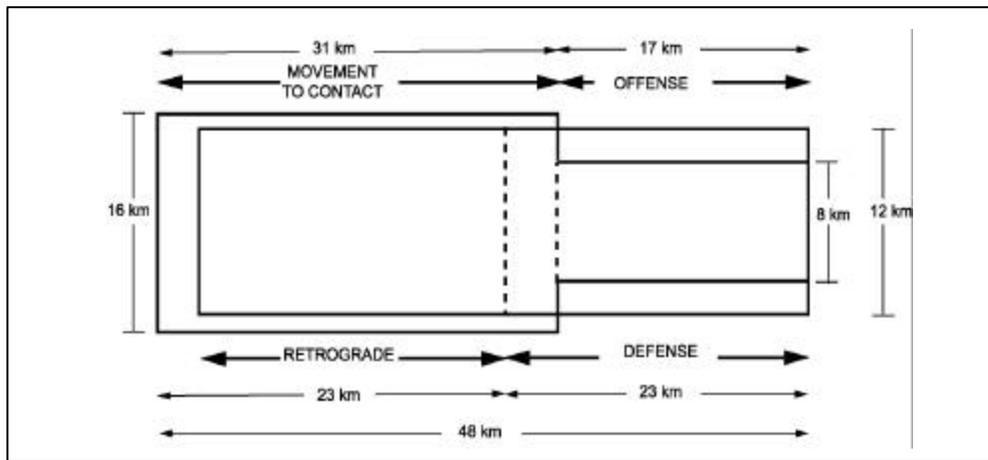


Figure C-2 BCT maneuver/training area requirements (flowing scenario)

- b. The example in Figure C-1 portrays a maneuver/training area requirement, or “box”, of approximately 122,500 acres – larger than most Army installations. The BCT can train each maneuver task individually within this larger box, stopping after each exercise to reposition forces. This is a potential training distracter and wastes valuable training time. Training repetitively on the same terrain also does not stress essential tactical skills. The example in C-2 is “free-flowing” and does not require timeouts for repositioning forces, but it requires an additional 50,000 acres. Both examples assume the three task forces are employed “two up and one back”, the majority of CS and CSS units are inside the boxes, and an appropriate size OPFOR is used.

C-5. Forward Support Battalion Exercises. The forward support battalion (FSB) establishes the brigade support area (BSA) and provides combat service support to the BCT and its units. The FSB normally accomplishes its maneuver training in conjunction with the brigade’s maneuver exercises. Its maneuver/training area requirements should be included as part of the BCT’s requirements, ideally within the BCT footprint. Figure C-3 shows the FSB’s maneuver/training area requirements, approximately 24,000 acres, to tactically operate the BSA when training independently.

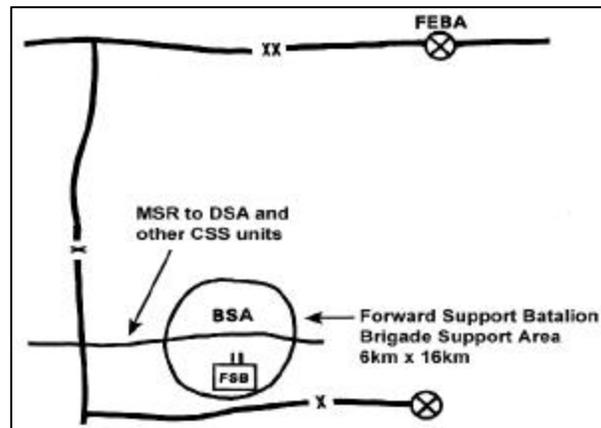


Figure C-3. FSB maneuver/training area requirements (training independently)

C-6. New Maneuver/Training Area Considerations for Current Force Operational Training.

- a. The operational environment, primarily the terrain the Army will fight on and its potential enemies, has changed significantly since publication of earlier versions of TC 25-1 and other Army doctrinal and training manuals. Previously, the battlefield, and the maneuver/training area requirements, were linear and well defined boxes and rectangles oriented on key terrain and known enemy templates. This is no longer the case, and these changes influence the maneuver/training area requirements for current and future forces.
- b. Brigades operate in Areas of Operation (AO) and Areas of Influence (AI), in which the operations referenced in the figures above will occur. A BCT AO is a geographical area, including airspace, in which the BCT commander has the responsibility and authority to conduct military operations using organic, assigned and supporting systems. The BCT commander uses control measures to designate and describe subordinate unit AOs based on METT-TC and unit capabilities. Subordinate units (task forces and companies) may conduct different missions simultaneously - one may attack while another defends. These subordinate unit AOs may be contiguous (a boundary separates them) or non-contiguous (the concept of operations links the units, but they do not share a boundary) as shown in Figure C-4. All this impacts maneuver/training area requirements. The BCT AO can be extremely large, much greater than shown in the scenarios in Figures C-1 and C-2. Task force maneuver/training area requirements may vary widely in size and complexity (i.e. open terrain or urban terrain). Units may train in greatly separated non-contiguous maneuver/training areas on the same installation, different installations, or on non-Army owned lands. BCT and garrison commanders and their staffs are faced with a difficult challenge of meeting the maneuver/training area requirements to “train as you fight” on limited available maneuver/training area
- c. The BCT AI is a geographical representation of the area from which information and intelligence are required to execute successful tactical operations and plan future operations. The BCT commander and staff develop the AI in order to visualize the battlefield and threat, and determine information requirements. If replicated in a live training environment, the BCT AI will include non-contiguous maneuver/training areas.

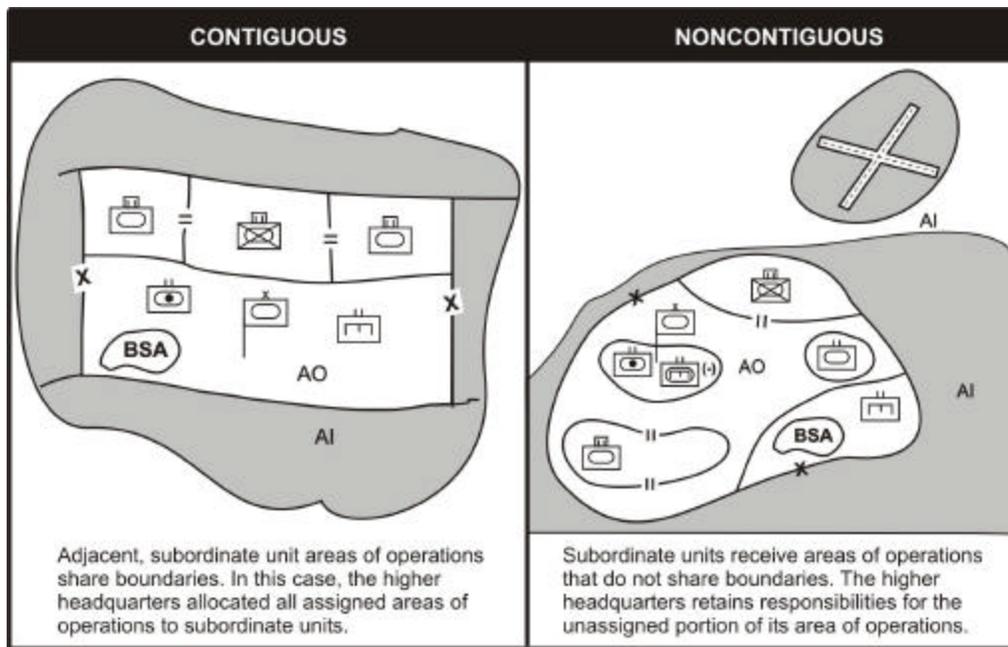


Figure C-4. Area of Operation and Area of Influence

C-7. Stryker Brigade Combat Team Operational Training.

- a. The Stryker Brigade Combat Team (SBCT) must train to succeed across the full spectrum of Army operations. The SBCT's primary mission is to fight and win smaller-scale contingency (SSC) operations in urban and complex terrain against low-end to mid-range adversaries that employ conventional and asymmetric capabilities. Potential operations include:
 - (1) Offensive operations aimed at defeating and destroying the enemy.
 - (2) Defensive operations that defeat an enemy attack, buy time, economize forces, or develop conditions favorable for offensive operations.
 - (3) Stability operations that promote and protect US national interests through a combination of peacetime developmental, cooperative activities, and coercive actions in response to crisis.
 - (4) Support operations that assist civil authorities in preparing for or responding to crisis and to relieve suffering.
- b. The SBCT's combined arms and mobility capabilities require extensive complex (and urban) maneuver/training areas (Table A-4). The maneuver/training area must support dismounted infantry training in situations where heavy forces would be limited. The maneuver/training area must support the SBCT's enhanced mobility which enables it to reposition rapidly, strike deep, secure lines of communication, conduct non-contiguous operations at all levels and conduct essential reconnaissance/surveillance operations. The SBCT will plan and conduct different operations simultaneously. An example of SBCT operations and maneuver/training area requirements is shown in Figure C-5. The challenge for unit and garrison commanders is in planning to support this training by recon-

figuring existing maneuver/training areas, constructing roads/trails to support SBCT mobility, providing an urban environment and securing non-contiguous maneuver/training areas.

- c. Also the SBCT operates in Areas of Operation (AO) and Areas of Influence (AI), in which subordinate units may be contiguous or non-contiguous. The SBCT will normally operate within an AO of approximately 50 km x 50 km. Fort Hood fits inside this box. With augmentation the SBCT AO could expand to as much as 100 km x 100 km. Rhode Island and Delaware fit inside this box. The SBCT infantry battalions normally operate within boxes of 10 km x 10 km (defense) or 15 km x 15 km (offense).
- d. The SBCT normally designates a rear area, but a subordinate battalion does not. On a non-linear battlefield that typifies SSC there may not be a spatially defined "rear area". Rear areas are basically locations where sustaining operations occur.
- e. Ensuring the SBCT can train to standard will challenge Army commanders, trainers, and land managers to identify and sustain the required maneuver/training areas, and to develop the successful live-virtual-constructive training strategies.

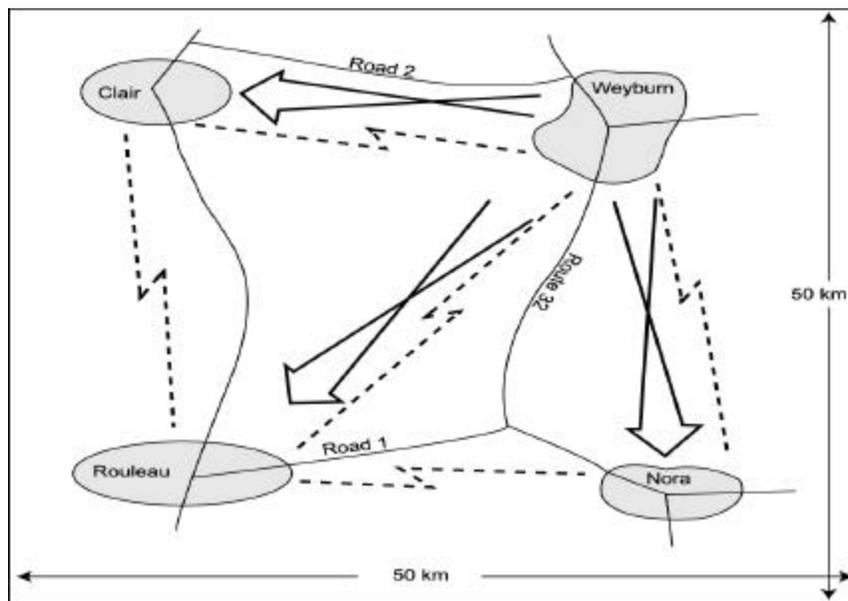


Figure C-5. SBCT maneuver/training area requirements.

C-8. Future Force Unit of Action (UA) Maneuver/Training Area Requirements.

- a. The UA is optimized for offensive operations and can conduct stability and support operations. The UA can command and control up to six combined arms battalions, and can be supported and augmented by additional Army and joint units. Its effectiveness relies on lethal small units with unsurpassed situational awareness, mobility and sensor-to-shooter capabilities. The UA stretches the battlespace and maneuver/training area requirements through its ability to develop situations out of contact, maneuver with speed and agility, and engage enemy forces beyond the range of their weapons and finally assault at the time and place of our choosing – from unexpected directions.

- b. Training the UA, a brigade size unit, in the live training environment poses two distinct challenges to garrison commanders and installation land managers. First, the AO and AI of the UA are huge-well beyond the size of all but a few current Department of Defense installations. Second, the maneuver/training areas must provide the full range of conditions: jungle, mountainous, open rolling, and urban – in all weather conditions. To further train the UA’s small units and individual soldiers on their METL in multiple terrain dimensions, the maneuver/training areas should include austere and fractured infrastructure (ex. destroyed bridges), urban clutter, and elevated-surface-sub surface terrain (ex. tunnels and caves).
- c. The UA battlespace consists of Area of Interest, Area of Influence and Area of Operations. An Area of Interest is that area of concern to the commander, including the area of influence and areas adjacent to it. It includes area occupied by enemy forces that could jeopardize the accomplishment of the mission. It generally corresponds to the Area of Influence of a headquarters two levels up. An area of influence is a geographical area in which a commander can directly influence operations by maneuver or fire support system normally under the commander’s command or control. Areas of influence surround and include the associated AO. The AO is an operational area defined by the Joint Force Commander for land forces. AOs should be large enough to allow the UA commander to employ their organic, assigned, and supporting systems to the limits of their capability.
- d. Based on the systems at each level of the UA, an area of influence of each unit would usually be no greater than the radii shown in Table C-1 below, and could be significantly less in complex or urban terrain.

Table C-1. UA Footprints			
<i>Unit</i>	<i>Area of Operations</i>	<i>Area of Influence</i>	<i>Area of Interest</i>
PLATOON	8 km (R)	16 km x 16 km	16 -30 km (R)
COMPANY	16 km (R)	32 km x 32 km	30 -50 km (R)
BATTALION	30 km (R)	60 km x 60 km	50 -75 km (R)
BRIGADE	75 km (R)	150 km x 150 km	75 – 150/175 km (R)

- e. UA training strategies are being developed that will include a mix of live-virtual-constructive training, with a high reliance on systems with embedded training and immediate performance feedback. The UA will still train on ranges and maneuver/training areas, but what they look like and how they are used are emerging concepts.

Appendix D

Installation Maps

“The principles of war ... are not limited to any one type of warfare, or even limited exclusively to war itself. But principles as such can rarely be studied in a vacuum: military operations are drastically affected by many considerations, one of the most important of which is the geography of the region.” General Eisenhower, *The West Point Atlas of Wars*, 1959.

D-1. The Army’s Integrated Training Area Management (ITAM) program includes a robust and growing Geographical Information System (GIS) capability. GIS supports training, readiness and land stewardship. The most obvious GIS capability is customized map-making, and included in this circular are maps of Army installations that provide a basic view of an installation’s live training assets. Currently the map inventory contains 40 maps, but it will expand to 115 maps. Two sample black & white maps are provided, color maps can be obtained by going to the ftp site below.

<ftp://ftp.atsc.army.mil/ATMD/ITC/>

Glossary

AASLT	air assault
abn	airborne
AC	active component
ACR	air calvary regiment
ACSIM	Army Chief of Staff for Information Management
ACUB	Army compatible use buffers
AD	air defense
ADA	air defense artillery
ADOT	acting director of training
adv	advance
AG	Adjutant General
AIT	advanced individual training
amb	ambulance
AMEDDC&S	Army Medical Department Center and School
AMEDDEX	Army Medical Department Center and School Exercise
ammo	ammunition
ANCOC	Advanced Non-Commissioned Officer Course
AO	area of operation
AOC	Advanced Officer Course
APFT	Army physical fitness test
AR	Army regulation
ARRM	Army requirements model
ARTEP	Army training and evaluation program
arty	artillery
ASP	ammunition supply point
asslt	assault
asst	assistant
ATC	Army Training Center
ATEC	Army Testing and Evaluation Command
bde	brigade
BFV	Bradley fighting vehicle
BIDS	biological integrated surveillance/detection system
bn	battalion
BNCOC	Basic Non-Commissioned Officer Course
BSFV	Bradley (Stinger) Fighting Vehicle

btry	battery
c1	class
C41SR	command-control-communications and computers-intelligence-surveillance and reconnaissance
CAA	Clean Air Act
CALFEX	combined arms live fire exercise
calib	calibration
CATS	combined arms training strategies
CAV	cavalry
CE	chemical engineer
CFV	cavalry fighting vehicle
chap	chaplain, chapter
chf	chief
CHSX	combat health support exercise
CI	counter intelligence
cmd	command
co	company
COMMEX	communications exercise
const	construction
CONUS	continental United States
COP	common operating picture
CSE	communications support element
CSS	combat service support
CTC	combat training center
CWA	Clean Water Act
CWST	combat water survival test
D/P	detachment/platoon
DA	Department of the Army
decon	decontamination
demo	demonstration
det	detachment
DGM	digital group multiplex
dig	digital
div	division
doc	doctrine
DOD	Department of Defense
DPW	Department of Public Works
DRB	division ready brigade
DS	direct support

DSB	division support battalion
DZ	drop zone
EAC	echelon above corps
EFMB	expert field medical badge
EFMC	expert field medical badge challenge
EIS	environmental impact statement
ENH	enhanced
ENMP	environment noise management program
ENT	entymology
EOD	explosive ordnance detachment
equip	equipment
ESA	Endangered Species Act
EURO-NATO	European North Atlantic Treaty Organization
EW	electronic warfare
FA	field artillery
FAADS	forward area air defense system
FARP	forward area rearm/refuel point
FAT HAWK	refuel and/or rearm operations
FATCOW	refuel and/or rearm operations
FI	finance
fld	field
FMT	field manual training
FORSCOM	United States Army Forces Command
FPE	field practical exercise
FRIES	fast rope insertion/extraction system
FTX	field training exercise
G3	Operations and Plans
GIS	glossarial information system
GPS	global positioning system
GS	general services
helo	helicopter
HHB	headquarters and headquarters battalion
HHT	headquarters and headquarters troop
HMMWV	high mobility multipurpose wheeled vehicle
HQ	headquarters
HUMINT	human intelligence
hvy	heavy
ICC	international career course
ICCC	Infantry Captain's Career Course

ICRMP	Installation Cultural Resources Management Plan
IERW	initial entry rotary wing
IMA	Installation Management Agency
IMT	initial military training
INF	infantry
infor	information
INRMP	Installation Natural Resources Management Plan
intel	intelligence
IOBC	Infantry Officer Basic Course
IP-	instructor pilot
IRR	Individual Ready Reserve
ISR	intelligence, surveillance and reconnaissance
ISTR	instructor
ITAM	integrated training and management
JCF	joint command forces
JIIM	joint interagency, intergovernmental and multinational
JNTC	joint national training center
km	kilometer
LOTS	logistics over the shore
LRBSDS	long-range biological surveillance/detection system
LRSL	long range surveillance leader
LURS	land use requirement study
MA	mortuary affairs
MACOM	major command
Mai nt	maintenance
MANPADS	man-portable air defense system
MANSCEN	Maneuver Support Center
MAPEX	map exercise
mech	mechanized
MED BDE	medical brigade
MED CMD	medical command
MEDV EVAC BN	medical evacuation battalion
METL	mission essential task list
METT-TC	mission, enemy, terrain and weather, troops and support available, time available, civil considerations
MI	military intelligence
MILES	multiple integrated laser engagement system
MIOBC	Military Intelligence Officer Basic Course
MLRS	multiple launch rocket system

mm	milimeter
MOA	memorandum of agreement
mod	modified
MOI	method of instruction
MOS	military occupational specialty
MOU	memorandum of understanding
MOUT	military operations in urban terrain
MP	military police
MS1	military science phase one
MSB	main support battalion
MTA	major training area
MTP	mission training plans
MULTI CHNL SYS	multichannel system
MVL	mechanized vehicle leader
mvmt	movement
N/NVG	night vision goggles
nav	navigation
NBC	nuclear biological contamination
NCA	Noise Control Act
NCOES	Non-Commissioned Officer Evaluation System
NEPA	National Environmental Policy Act
NHPA	National Historic Preservation Act
NOE	nap of the earth
NTWKS	network short-wave
NVD	night vision device
OAC	Officer Advanced Course
OCS	Officer Candidate School
OES	Officer Education Center
op	operations
opnl	operational
opns	operations
OPR	operator
OSD	Office of the Secretary of Defense
OSUT	one-station unit training
pam	pamphlet
PE	practical exercise
PES	practical exercises
petrl	petroleum
PLDC	Primary Leadership Development Course

PLGR	precision lightweight GPS receiver
plt	platoon
POCD	port operations command detachment
POI	programs of instruction
POL	petroleum, oils and lubricants
PPP	power projection platform
PSYOP	psychological operations
PZ/LZ	pickup zone/landing zone
QM	quartermaster
QTRM/CHEM	Quartermaster/chemical
RC	Reserve Component
RCRA	Resource Conservation and Recovery Act
RDP	range development plan
RDT&E	research, development and testing and evaluation
RECON	reconnaissance
ROTC	Reserve Officer's Training Corps.
ROWPU	reverse osmosis water purification unit
RPLANS	real property and analysis system
RSTA	reconnaissance, surveillance and target acquisition
RTLTP	range and land training program
S & T	Supply and transportation
SAIA	Sikes Act Improvement Act
SAN	sanitation
SATCOM	sattelite communications
SBCT	Striker brigade combat team
SDZ	surface danger zone
SEMA	special electronic mission aircraft
sep	separate
SF	special forces
sig	signal
SIGINT	signal intelligence
SINGARS	single-channel ground and airborne radio subsystem
SMART-T	secure, mobile, antijam reliable tactical terminal
SNCO	senior non-commissioned officer
SOF	special operations forces
SP	starting point
SPIES	special patrol insertion/extraction system
SPOD	seaport of departure
SPTCMD	support command

sqdn	squadron
SRP	sustainable range program
STRAC	Standards in Training Commission
STX	situational training exercise
SURF	single unit retrieval format
surv	surveillance
sys	system
T2	training transformation
TA	training area
tac	tactical
TADSS	training aids, devices, simulators and simulations
TATS	Total army training system
tech	Technology, technician
TEWT	tactical exercise without troops
THTR	theater
TIM	transformation installation management
TM	technical manual
TMDE	test measurement and diagnostic equipment
trnsp	transportation
trp	troop
TTT	time to target
UA	unit of action
UAV	unmanned aerial vehicle
UBL	unit basic load
USAIS	United States Army Infantry School
USAJFKSWCS	U.S. Army John F. Kennedy Special Warfare Center and School
USATC	United States Army Training Center
USMC	United States Marine Corps.
veh	vehicle
VET	veterinary
vis	visual
WMD	weapons of mass destruction
WO	warrant officer
WOBC	Warrant Officer Basic Course
wtr	water

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- ARTEP 43-607-30-MTP, Mission Training Plan for the Ordnance (Maintenance) Company, Direct Support, Patriot Brigade Support Element, Air Defense Support Command, Theater Army
- ARTEP 43-648-30-MTP, Mission Training Plan for the Ordnance (Maintenance) Company (Sustainment) (Theater Signal Command—Army)
- ARTEP 43-649-30-MTP, Mission Training Plan for the Ordnance (Maintenance) Company, General Support
- ARTEP 44-115-MTP, Mission Training Plan for the ADA Battalion (Light, Airborne, and Air Assault Divisions)
- ARTEP 44-117-11-MTP, Mission Training Plan for the Stinger Platoon
- ARTEP 44-117-22-MTP, Mission Training Plan for the Avenger Platoon
- ARTEP 44-117-30-MTP, Mission Training Plan for an ADA Battery, Gun or Stinger
- ARTEP 44-175-MTP, Mission Training Plan for the ADA Battalion Heavy Division
- ARTEP 44-176-15-MTP, Mission Training Plan for a Sentinel Platoon
- ARTEP 44-177-15-MTP, Mission Training Plan for the Bradley Stinger Fighting Vehicle/Linebacker Platoon

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ARTEP 44-635-MTP, Mission Training Plan for an ADA Battalion, Patriot

ARTEP 44-637-30-MTP, Mission Training Plan for an ADA Battery, Patriot

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ARTEP 55-158-30-MTP, Mission Training Plan for the Transportation Motor Transport Company, Supply and Transport Battalion, Airborne, Air Assault, and Light Division

ARTEP 55-288-30-MTP, Mission Training Plan for Transportation Motor Transport Company, Division Support Battalion, Digitized Division

ARTEP 55-406-MTP, Mission Training Plan for the Transportation Movement Control Battalion

ARTEP 55-406-30-MTP, Mission Training Plan for Detachment Headquarters Transportation Movement Control Battalion

ARTEP 55-560-30-MTP, Mission Training Plan for the Transportation Port Operations Cargo Detachment, Transportation Contract Supervision, Automated Cargo Documentation, and Freight Consolidation and Distribution Teams

ARTEP 55-601-MTP, Mission Training Plan for the Headquarters Transportation Command

ARTEP 55-603-MTP, Mission Training Plan for the Theater Army Movement Control Agency

ARTEP 55-613-30-MTP, Mission Training Plan for the Transportation Floating Craft Maintenance Company

ARTEP 55-716-MTP, Mission Training Plan for the Transportation Motor Transport Battalion

ARTEP 55-716-30-MTP, Mission Training Plan for the Transportation Agency Headquarters, Headquarters Company, and Headquarters Detachment

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ARTEP 55-917-30-MTP, Mission Training Plan for the Transportation Railway Operating Company

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ARTEP 8-419(MRI)-30-MTP

ARTEP 8-463-MTP

ARTEP 8-473(MRI)-30-MTP

ARTEP 8-611(MRI)-MTP

ARTEP 8-668(MRI)-30-MTP

Index

A

area of operations (AO), A-53, C-3, C-5, C-6
Army land strategy, 3-2
Army major commands (MACOMS), 1-3, 3-2
Army RTLP requirements model (ARRM), 3-2
Army Test and Evaluation Command (ATEC), 1-4
Army Training and Evaluation Programs (ARTEP), 1-3, 1-5, 2-2, A-1, A-2, A-3, A-5

C

combined arms teams, 1-2, 2-2, 3-2, A-3
combined arms training, 3-2, A-3, C-4
Combined Arms Training Strategies (CATS), iii, 1-3, 2-2, A-1, A-53
constructive simulations, 2-2
corps and division headquarters, 2-2

D

DCSOPS. *See* Deputy Chief of Staff of the Army, G3
Deputy Chief of Staff of the Army, G3, 3-1, 3-2

E

encroachment, 1-1, 3-1, 3-3
environmental impact statement (EIS), 2-1

F

full spectrum force, 1-1
full spectrum operations, 1-2, C-1, C-4

I

Installation Management Agency (IMA), 3-1
Integrated Training Area Management (ITAM), 2-1, 2-2, 2-3, 3-5, D-1

M

major training areas (MTA), 1-3
maneuver areas
contiguous, iii, 1-2, 2-2, 3-2, A-2, A-3, A-4
non-contiguous, iii, 1-2, 2-2, 3-2, A-2, A-3, A-4
mission essential task list (METL), 1-2, 1-4, A-1, C-1, C-6
mission training plans (MTP), iii, 1-3, 2-1, 2-2, 3-4, A-1, A-2

N

National Environmental Policy Act (NEPA), 2-1, 3-4

Q

quality of firsts, 1-2

R

range and training land program (RTLTP), 2-2, 3-2
range development plan (RDP), 3-2
range requirements, 3-6
Real Property and Analysis System (RPLANS), 3-2

S

situational training exercises (STX), 2-2, A-1
Stryker Brigade combat team (SBCT), iii, 1-2, 1-5, A-53
surface danger zone (SDZ), 3-3
sustainable range program (SRP), iii, 2-2, 2-3, 3-2

T

training aids, devices, simulators, and simulations (TADSS), 1-4
training transformation (T2) initiative, 3-1
Transformation Installation Management (TIM), 3-1

U

unit of action (UA), iii

TC 25-1
15 MARCH 2004

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